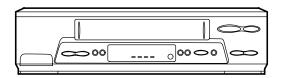
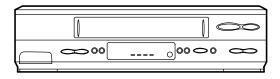
SHARP SERVICE MANUAL

S62L3VC-A10//



VHS VIDEO CASSETTE PLAYER

VC-A500



VC-A10/A10S/A50/A50S/ A50S(B)/A60/A75/A80S

VC-A10/A10S VC-A50/A50S/A50S(B) VC-A500 VC-A60 VC-A60 VC-A75 MODELS VC-A80S

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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PRECAUTIONS IN PART REPLACEMENT

When servicing the unit with power on, be careful to the section marked white all over.

This is the primary power circuit which is live.

When checking the soldering side in the tape travel mode, make sure first that the tape has been loaded and then turn over the PWB with due care to the primary power circuit.

Make readjustment, if needed after replacement of part, with the mechanism and its PWB in position in the main frame.

(1) Start and end sensors: Q701 and Q702

Insert the sensor's projection deep into the upper hole of the holder. Referring to the PWB, fix the sensors tight enough.

(2) Photocoupler: IC901 and IC902

Refer to the symbol on the PWB and the anode marking of the part.

(3) Cam switches A and B: S704.

Adjust the notch of the part to the white marker of the symbol on the PWB. Do not allow any looseness.

(4) Take-up and supply sensors: D707 and D706.

Be careful not to confuse the setting direction of the parts in reference to the symbols on the PWB. Do not allow any looseness.

1. SPECIFICATIONS

Format: VHS PAL/MESECAM/NTSC standard (except VC-A60)

VHS PAL/SECAM/MESECAM/NTSC standard (VC-A60)

Video recording system: Rotary, slant azimuth two heads helical scan system

Video signal: PAL colour or monochrome (CCiR system B/G) signals

Maximum Recording/playing time: 240 minutes max. with SHARP E-240 tape at SP mode)

480 minutes max. with SHARP T-160 tape (NTSC: EP mode)

Tape width: 12.7mm

Tape speed: 23.39/33.53 mm/s (PAL/NTSC : SP mode)

11.70/16.67 mm/s (PAL/NTSC: LP mode)

7.79/11.12 mm/s (PAL/NTSC: EP mode)

Antenna: 75 ohm unbalanced

RF converter output signal: UHF Channel E21-E69 (preset to E60)

Power requirement: AC110-240V, 50/60Hz

Power consumption: Approx. 10W (VC-A10/A10S, VC-A50/A50S/A50S(B)/A500/A60)

Approx. 12W (VC-A75)

Approx. 13W (VC-A80S)

Operating temperature: 5°C to 40°C

Storage temperature: -20°C to 60°C

VIDEO Output: 1.0 Vp-p, 75 ohm AUDIO Output: Line -8 dBs/1k ohm

Weight: Approx. 2.3 kg

Dimensions: 360 mm (W) x 232 mm (D) x 92 mm (H)

Accessories included: 75 ohm coaxial cable

Operation manual Infrared remote control

Battery

Schematic Diagram (VC-A500)

As part of our policy of continuous improvement, we reserve the right to alter design and specifications without notice.

Note: The antenna must correspond to the new standard DIN 45325

(IEC 169 - 2) for combined UHF/VHF antenna with 75 ohm connector.

2. DISASSEMBLY AND REASSEMBLY

2-1 DISASSEMBLY OF MAJOR BLOCKS

TOP CABINET

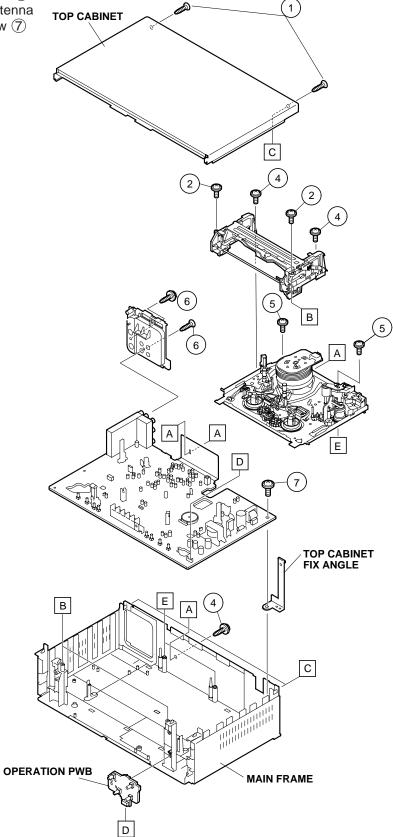
: Remove 2 screws (1).

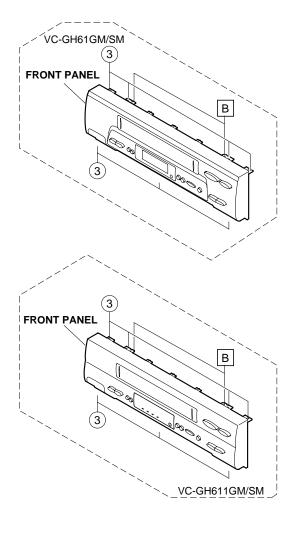
MECHANISM/ **MAIN PWB**

FRONT PANEL: Remove 2 screws (2) and 7 clips (3). : Remove 2 screw (4), 2 screws (5).

> Remove 2 screws 6 with antenna terminal cover. Remove 1 screw (7)

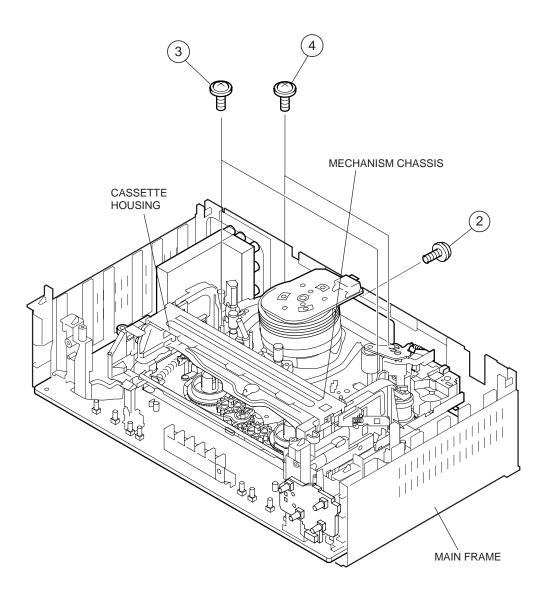
with top cabinet fix angle.





2-2 DISASSEMBLING THE MECHANISM

- When removing the mechanism from the set.
 Remove the screw ② which connecting the PWB and the mechanism.
 - Remove the screw 4 which connecting mechanism and main frame.
 - Take out vertically the mechanism so that it does not damage the adjacent parts.
- 2. Removing the mechanism and cassette housing. Remove 2 screws ③ fixing the cassette housing to the mechanism, and remove the cassette housing.



2-3 CARES WHEN REASSEMBLING

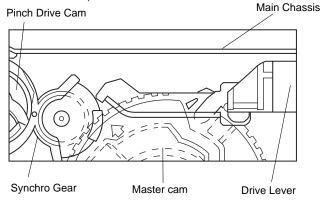
INSTALLING THE CASSETTE HOUSING

When the cassette housing is installed on the mechanism, the initial setting is essential condition.

There are two initial setting methods, namely electrical and mechanical.

1. Electrical initial setting

So as to perform initial setting of mechanism execute the Step 1 of Installation of cassette housing. After ascertaining the return to the initial setting position install the cassette housing. (Conditions: When mechanism and PWB have been installed)



2. Mechanical initial setting

 Rotate the worm gear by pushing the flange manually until return to initial position.

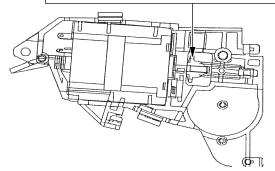
Rotate the flange of worm gear by using thin stick.

CW • • • Loading direction

CCW • • • Ejection direction

Note:

Be careful not to damage the gear of worm gear and worm wheel gear. It miight cause a strange sound.



- When apply power supply to rotate the loading motor, please remove/unsolder at least one terminal wire.
- If voltage applied to loading motor without diconnecting the terminal wire, there is a possibility the capstan motor IC will damage.
- The maximum applied voltage is 9V. If more than 9V, there is apossibility the mechanism will damage.
- After ascertaining the return to the initial set position install the cassette housing in the specified position. (This method is applied only for the mechanism.)

INSTALLING THE MECHANISM ON PWB

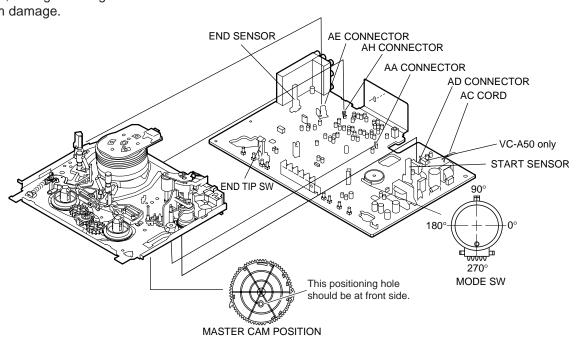
Lower vertically the mechanism, paying attention to the mechanism edge mode SW position, (Set the mode SW position to 270° and make sure the master cam position hole also in 270° position) and install the mechanism with due care so that the parts are not damaged.

* Please make sure to insert correctly.

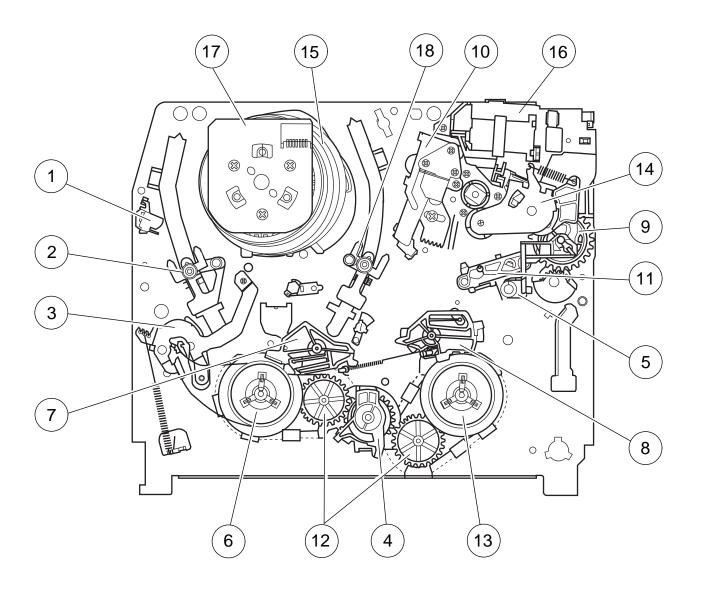
If not, strange moving will occur and will couse mechanism damage.

PARTS WHICH NEED PARTICULAR CARE

When installing the mechanism chassis on the PWB unit, take care so as to prevent deformation due to contact of mechanism chassis with REC TIP SW.



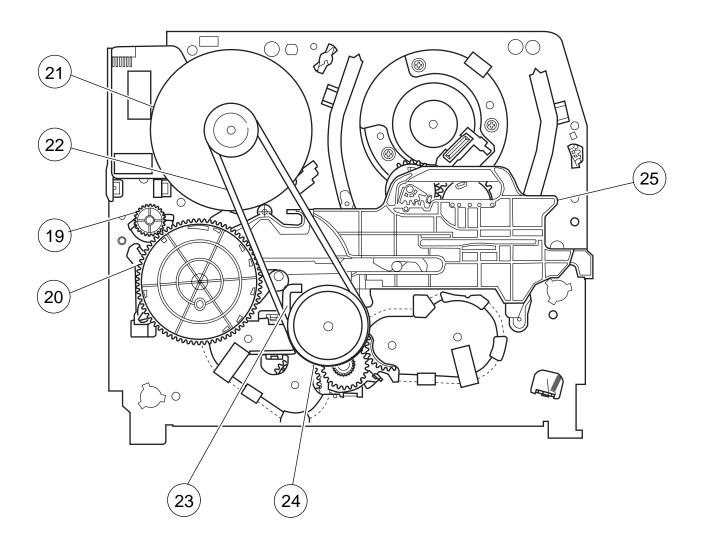
3. FUNCTION OF MAJOR MECHANICAL PARTS (TOP VIEW)



No.	Function	No.	Function
1	Full erase head	11	Reverse guide lever ass'y
2	Supply pole base ass'y	12	Reel relay gear
3	Tension arm	13	Take-up reel disk
4	Idler wheel ass'y	14	Pinch roller lever ass'y
5	Open guide	15	Drum ass'y
6	Supply reel disk	16	Loading motor block
7	Supply main brake	17	Drum driver motor
8	Take-up main brake	18	Take-up pole base ass'
9	Pinch drive cam		
10	A/C head ass'y		

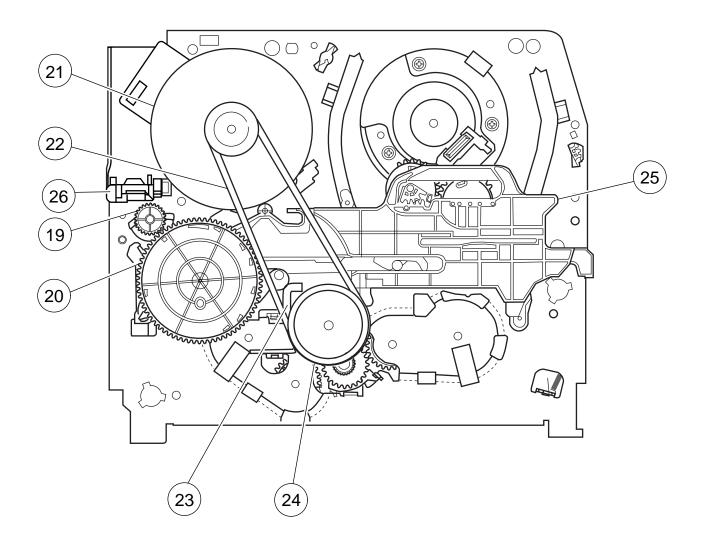
FUNCTION OF MAJOR MECHANICAL PARTS (BOTTOM VIEW)

(except VC-A50S)



No.	Function	No.	Function
19	Syncro Gear	23	Clutch lever
20	Master cam	24	Limiter pulley ass'y
21	Capstan D.D. motor	25	Shifter
22	Reel belt		

FUNCTION OF MAJOR MECHANICAL PARTS (BOTTOM VIEW) (VC-A50S)



No.	Function	No.	Function
19	Syncro Gear	23	Clutch lever
20	Master cam	24	Limiter pulley ass'y
21	Capstan D.D. motor	25	Shifter
22	Reel belt	26	DM/LM FFC Holder

4. ADJUSTMENT, REPLACEMENT AND ASSEMBLY OF MECHANICAL UNITS

The explanation given below relates to the on-site general service (field service) but it does not relates to the adjustment and replacement which need high-grade equipment, jigs and skill. For example, the drum assembling, replacement and adjustment service must be performed by the person who have finished the technical courses.

4-1 MECHANISM CONFIRMATION ADJUSTMENT JIG

So as to perform completely the mechanism adjustment prepare the following special jigs. So as to maintain the initial performance of the machine the maintenance and check are necessary. Utmost care must be taken so that the tape is not damaged. If adjustment needs any jig, be sure to use the required jig.

		T			1	
No.	Jig Item	Part No.	Code	Configuration	Remarks	
1.	Torque Cassette Meter	JiGVHT-063	CZ		This cassette torque meter is used for checking and adjusting the torque of take-up for measuring tape back tension.	
2.	Torque Gauge	JiGTG0090	СМ			
۷.	Torque Gauge	JiGTG1200	CN		These Jigs are used for checking and adjusting the torque of take-up	
3.	Torque Gauge Head	JiGTH0006	AW		and supply reel disks.	
4.	Torque Driver	JiGTD1200	СВ		When fixing any part to the threaded hole using resin with screw, use the jig. (Specified torque 5 kg)	
	Master Plane Jig and	JiGRH0002	BR	Q	These Jigs are used for checking and adjusting the reel disk height.	
5.	Reel Disk Height Adjusting Jig	JiGMP0001	BY	6.0		
	Tanaina Causa	JiGSG2000	BS		There are two gauges used for the	
6.	Tension Gauge	JiGSG0300	BF		tension measurements, 300 g and 2.0 kg.	
7.	Pinch pressing force measuring jig	JiGADP003	BK		This Jig is used with the tension gauge. Rotary transformer clearance adjusting jig.	
					These tapes are especially used for electrical fine adjustment.	
					Video Audio HiFi Audio Track	
8.	Alignment Tape	VROCPSV	СК		625 Monoscope 7k — 49μm PAL Colour Bar 1k — 49μm	
9.	Guide roller height adjustment driver	JiGDRiVERH-4	AP		This screwdriver is used for adjusting the guide roller height.	
10.	X value adjustment gear driver	JiGDRiVER-6	ВМ		For X value adjustment	
11.	Tension Pole Adjustment Driver	JiGHMEC-M005			This Jig is used for adjustment of tension pole.	

4-2 MAINTENANCE CHECK ITEMS AND EXECUTION TIME

Perform the maintenance with the regular intervals as follows so as to maintain the quality of machine. Maintained 500 1000 1500 2000 Possible symptom Remarks **Parts** hrs. hrs. hrs. hrs. encountered Abnormal rotation or significant Guide roller ass'y vibration requires replacement. Sup guide shaft П Lateral noises Head occasionally blocked Clean tape contact part with the Reverse guide П specified cleaning liquid. Slant pole on pole base 0 Colour and beating Full erase head Small sound or sound \bigcirc A/C head distortion Clean tape contact area with the Poor S/N ratio, no colour specified cleaning liquid. Poor flatness of the Upper and lower drum ass'y П \bigcirc \bigcirc envelope with alignment tape No tape running, Capstan D.D. motor uneven colour No tape running, tape Pinch roller slack Clean rubber and rubber contact area with the specified cleaning No tape running, tape Reel belt slack, no fast forward/ liquid. \bigcirc rewind motion 0 Screen swaying Tension band ass'y Cassette not loaded or \bigcirc Loading motor unloaded Idler ass'y 0 No tape running, tape slack Limiter pulley $\Box \triangle$ Supply/take-up main brake levers 0 Tape slack

NOTE	○ : Part replacement.	☐ : Cleaning	∴ : Apply grease
<specifie< td=""><td>d> Cleaning liquid Indus</td><td>trial ethyl alcoh</td><td>ol</td></specifie<>	d> Cleaning liquid Indus	trial ethyl alcoh	ol

Video head cleaning procedure

- 1. Apply one drop of cleaning liquid to the cleaning paper with the baby oiler.
- 2. Gently press the cleaning paper against the video head to fix your finger, and move the upper drum so that each head is passed to and fro 5 times (do not move the cleaning paper).
- 3. Wipe with the dry cleaning paper.

Notes:

- Use the commercially available ethanol of Class 1 as cleaning liquid.
- Since the video head may be damaged, do not move up and down the cleaning paper.
- Whenever the video head is cleaned, replace the cleaning paper.
- Do not apply this procedure for the parts other than the video head.

Rotate the upper drum with one hand.

Gently press the cleaning paper to fix with your finger, and rotate the upper drum to clean.

Move to and fro 5 times for each head.

(Do not move the cleaning paper.)



Parts Code	Description	Code
ZPAPRA56-001E	Cleaning Paper	AW
ZOiLR-02-24TE	Babe Oiler (Spoit)	AH

^{*} This mechanism does not need electric adjustment with variable resistor. Check parts. If any deviation is found, clean or replace parts.

4-3 REMOVING AND INSTALLING THE CAS-SETTE HOUSING

Removal

- 1. In the cassette removing mode, remove the cassette.
- 2. Unplug the power cord.
- 3. Remove in the following numerical order.
 - a) Remove two screws (1).
 - b) Pull and circle the drive lever and pull up the cassette housing control.

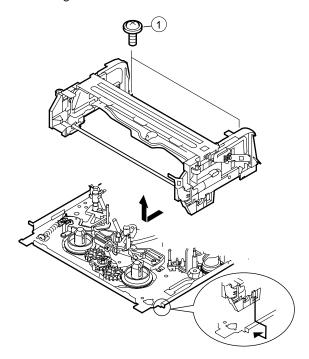


Figure 4-1.

Reassembly

 Before installing the cassette housing control, short-circuit between TP803 and TP802 provided at main PWB, press the eject button. The master cam turns and stop in eject position. Fit the drive lever to master cam through main chassis, push down and slide the drive lever towards to master cam.

*Eject position: Pinch Drive Cam positioning hole parallel to center of Synchro Gear (Synchro gear marking line). Synchro Gear positioning mark parallel to center of master cam.

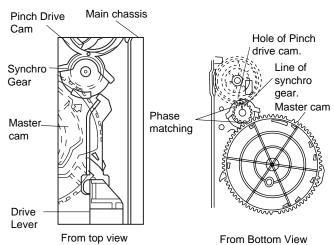


Figure 4-2.

2. Install in the reverse order of removal.

Notes

- In the case when you use the magnet screw driver, never approach the magnet driver to the A/C head, FE head, and drum.
- 2. When installing or removing, take care so that the cassette housing control and tool do not contact the guide pin or drum.
- 3. After installing the cassette housing control once perform cassette loading operation.

4-4 TO RUN A TAPE WITHOUT THE CASSETTE HOUSING CONTROL ASSEMBLY

- 1. Remove the full-surface panel.
- 2. Short-circuit between TP803 and TP802.
- 3. Plug in the power cord.
- Turn off the power switch. (The pole bases move into U.L.position.)
- 5. Open the lid of a cassette tape by hand.
- 6. Hold the lid with two pieces of vinyl tape.
- 7. Set the cassette tape in the mechanism chassis.
- 8. Stabilize the cassette tape with a weight (500g) to prevent floating.

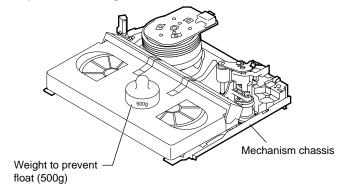


Figure 4-3.

- 9. Turn on the power switch.
- 10. Perform running test.

Note:

The weight should not be more than 500g.

To take out the cassette tape.

- 1. Turn off the power switch.
- 2. Take out the cassette tape.

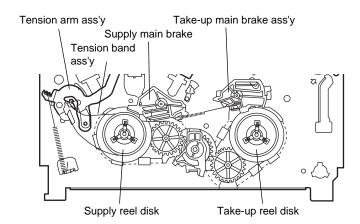
4-5 REEL DISK REPLACEMENT AND HEIGHT CHECK

Removal

- 1. Remove the cassette housing control assembly.
- 2. Remove the Supply/Take-up main brake ass'y.
- 3. Remove tension band from the tension arm ass'y.
- 4. Remove the reel disk.

Note:

Take care so that the tension band ass'y and main brake ass'y are not deformed.



Reassembly (Supply reel disk)

- Clean the reel disk shaft and apply grease (SC-141) to it.
- 2. Match the phases of reel disk and reel relay gear, and set the new reel disk.
- 3. After checking the reel disk height, wind the tension band ass'y around the reel disk, and hook to tension arm ass'y.
- 4. Assemble the Supply main brake ass'y.

Notes:

- 1. When installing the reel disk, take due care so that the tension band ass'y is not deformed and grease does no adhere.
- 2. Do not damage the Supply main brake ass'y. Be careful so that grease does not adhere to the brake surface.

Reassembly (Take-up reel disk)

- Clean the reel disk shaft and apply grease (SC-141) to it
- 2. Align the phase of the reel disk to that of the reel relay gear and to install a new take-up reel disk onto the shaft.
- 3. Check the reel disk height and reassemble the take-up main brake ass'y.

Note:

- 1. Take care so that the Take-up main brake ass'y is not damaged. Take care so that grease does not adhere the brake surface.
- After reassembly, check the video search rewind back tension (see 4-10), and check the brake torque (see 4-14).

Height checking and adjustment Note:

- Set the master plane with due care so that it does not contact the drum.
- 2. When putting the master plane, shift the reverse guide a little in the loading direction. Care must be taken since excessive shift results in damage.

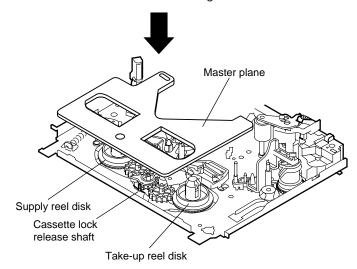


Figure 4-4.

Note:

 Check that the reel disk is lower than part A but higher than part B. If the height is not correct, readjust the reel disk height by changing the poly-slider washer under the reel disk.

Note:

Whenever replacing the reel disk, perform the height checking and adjustment.

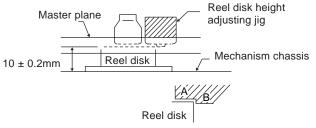


Figure 4-5.

4-6 CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN FAST FORWARD MODE

- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Setting

- 1. Set a torque gauge to zero on the scale. Place it on the take-up reel disk.
- 2. Press the FF button.
- 3. To calculate the remaining capacity of the play back mode, slowly rotate the supply reel disk, and then shift it into the forward mode.

Checking

- 1. Turn the torque gauge slowly (one rotation every 2 to 3 seconds) by hand in the CW direction.
- 2. Make sure that the indication of torque gauge is not less than 30mN·m (306gf·cm).

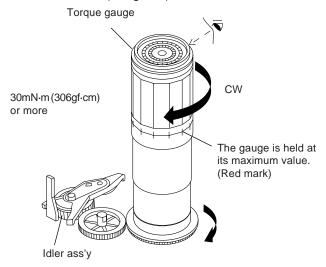


Figure 4-6.

Adjustment

- 1. If the FF winding-up torque is less than the specified value, clean the capstan D.D. pulley, reel belt, and limiter pulley with cleaning liquid, and check again.
- 2. If the torque is less than the set value, replace the reel belt.

Notes:

- 1. Hold the torque gauge by hand so that it is not moved.
- 2. Do not keep the reel disk in lock state. Do not allow long-time measurement.

4-7 CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN REWIND MODE

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Setting

- 1. Set a torque gauge to zero on the scale. Place it on the supply reel disk.
- 2. Press the rewind button.
- 3. To calculate the remaining capacity, slowly rotate the take-up reel disk, and then shift it into the rewind mode.

Checking

- 1. Turn the torque gauge slowly (one rotation every 2 to 3 seconds) by hand in the CCW direction.
- 2. Make sure that the indication of torque gauge is not less than 30mN·m (306gf·cm).

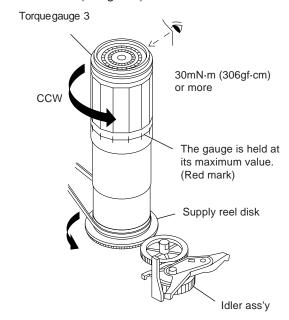


Figure 4-7.

Adjustment

- If the rewind winding-up torque is less than the specified value, clean the capstan D.D. pulley, reel belt, and limiter pulley with cleaning liquid, rewind again, and check the winding-up torque.
- 2. If the winding-up torque is still out of range, replace the drive belt.

Notes:

- 1. Hold the torque gauge by hand so that it is not moved.
- 2. Do not keep the reel disk in lock state. Do not allow longtime measurement.

4-8 CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN RECORD/PLAYBACK MODE

- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.
- Turn off the power switch.
- Open the cassette torque meter lid, and fix it with tape.
- · Load the cassette torque meter into the unit.
- Put the weight (500g) on the cassette torque meter.
- Turn on the power switch.
- Press the picture record button, and set LP picture record mode (x2).

Set value LP 6.9 +2.0 mN·m (70 +20 gf·cm)

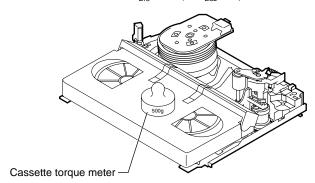


Figure 4-8.

Checking

- 1. Make sure that value is within the setting 6.9 $^{+2.0}_{-2.5}$ mN·m (70 $^{+20}_{-2.5}$ gf·cm).
- 2. The winding-up torque fluctuates due to variation of rotation torque of limiter pulley ass'y. Read the center value of fluctuation as setting.
- 3. Set the LP record mode (x2) and make sure that the winding-up torque is within setting.

Adjustment

If the playback winding-up torque is not within the setting, replace the limiter pulley assembly.

Note:

When the torque cassette is set, put a weight (500g) to prevent rise.

When the cassette torque meter is taken out.

Turn off the power switch.

4-9 CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN VIDEO SEARCH REWIND MODE

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Setting

Press the playback button and rewind button to set the video search rewinding mode.

Checking

Place the torque gauge on the supply reel disk, and turn it counterclockwise very slowly (one rotation every 1 to 2 seconds) and check that the torque is within the set value 14.1 ± 3.5mN·m. (144 ± 35gf·cm)

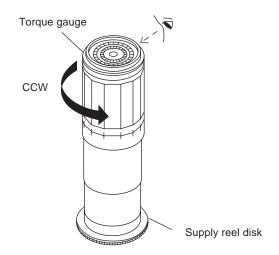


Figure 4-9.

Note:

Surely put the torque gauge on the reel disk to measure. If the torque gauge is raised, accurate measurement is impossible.

Adjustment

If the rewinding playback winding-up torque is not within the setting, replace the limiter pulley assembly.

Note:

The winding-up torque fluctuates due to variation of rotation torque of supply reel disk. Read the center value of fluctuation as setting.

4-10 CHECKING THE VIDEO SEARCH REWIND BACK TENSION

- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Checking

- 1. After pressing the play button, press the rewind button, and set the video search rewind mode.
- 2. Place the torque gauge on the take-up reel disk, and turn it counterclockwise very slowly (one rotation every 2 to 3 seconds) and check that the torque is within the set value 3.7 ± 1.5mN·m (38 ± 15gf·cm).

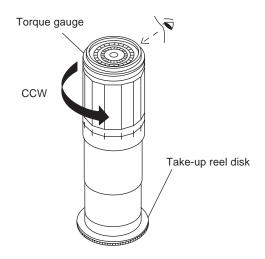


Figure 4-10.

Notes:

Set the torque gauge securely on the take-up reel disk. If it is not secure, the measurement will be incorrect.

4-11 CHECKING THE PINCH ROLLER PRESSURE

- * Checking can be perform with or without cassette housing control.
- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Checking

Press the play button to set the playback mode.

- Detach the pinch roller from the capstan shaft.
 Do not separate excessively. Or the pinch lever and pinch double action lever may disengage.
- 2. Engage the tension gauge adapter with the pinch roller shaft, and pull in the arrow direction.
- 3. Gradually return the pinch roller, and measure the pulling force when the pinch roller contacts the capstan shaft.
- 4. Make sure that the measured value is within setting change to $9.8 \pm 2N$ ($1.0 \pm 0.2kgf$).

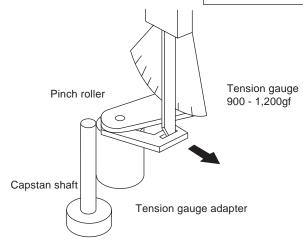


Figure 4-11.

4-12 CHECKING AND ADJUSTMENT OF TENSION POLE POSITION

- * Checking can be perform with or without cassette housing control.
- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.
- Setting (without cassette housing control)
- 1. Turn off the power switch.
- 2. Open the cassette tape (E-180), and fix with tape.
- 3. Set the cassette tape in loading state.
- 4. Put the weight (500g) on the cassette tape.
- 5. Turn on the power switch.
- 6. Make the adjustment with the beginning of a E-180 tape.

Setting (with cassette housing control)

- 1. Insert cassette tape (E-180).
- 2. Make the adjustment with the beginning of a E-180 tape.

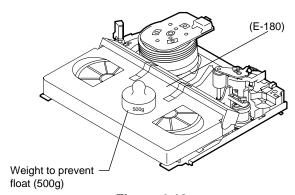
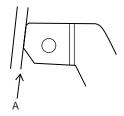


Figure 4-12.

Checking

- Set a cassette tape, push the REC button to place the unit in the SP record mode. Now check the tension pole position.
- 2. Visually check to see if the position of the tension pole is within the 0 $^{+\,0.5}_{-\,0.2}$ mm from the left side line.

Standard A =
$$0^{+0.5}_{-0.2}$$
 mm



Make the adjustment with the beginning of a E-180 tape.

Figure 4-13.

At left side from the reference line. (A).

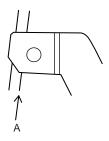


Figure 4-14.

Insert the tension pole adjustment driver to main chassis hole, and rotate clockwise.

At right side from the reference line. (A).

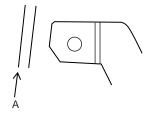


Figure 4-15.

Insert the tension pole adjustment driver to main chassis hole, and rotate counterclockwise.

Tension pole adjustment driver adjusting direction

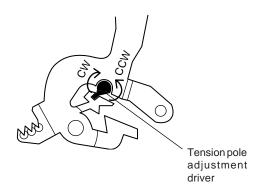


Figure 4-16.

4-13 CHECKING AND ADJUSTMENT OF RECORD/PLAYBACK BACK TENSION

- * Checking can be perform with or without cassette housing control.
- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.
- Setting (without cassette housing control)
- 1. Turn off the power switch.
- 2. Open the cassette torque meter and fix with tape.
- 3. Set the cassette torque meter in loading state.
- 4. Put the weight (500g) on the cassette torque meter.
- 5. Turn on the power switch.
- Setting (with cassette housing control)
- 1. Insert cassette torque meter.

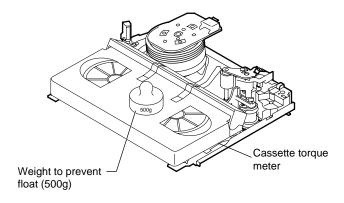


Figure 4-17.

Checking

- 1. Push the REC button to place the unit in the SP record mode.
- 2. At this time ascertain that the back tension is within the setting 3.9 to 5.5mN·m (40 to 56gf·cm) by seeing the indication of torque cassette meter.

Adjustment

- 1. If the indication of torque cassette meter is lower than the setting, shift the tension spring engagement to the
- 2. If the indication of torque cassette meter is higher than the setting, shift the tension spring engagement to the

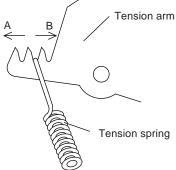
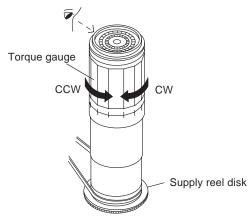


Figure 4-18.

4-14 CHECKING THE BRAKE TORQUE

Checking the brake torque at the supply side



CCW: $4.41 \pm^{+2.0}_{-1.5} \, \text{mN} \cdot \text{m} \ (45 \pm^{+20}_{-15} \, \text{gf} \cdot \text{cm})$ CW: $4.12 \pm^{+1.5}_{-1.2} \, \text{mN} \cdot \text{m} \ (42 \pm^{+15}_{-12} \, \text{gf} \cdot \text{cm})$

Figure 4-19.

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

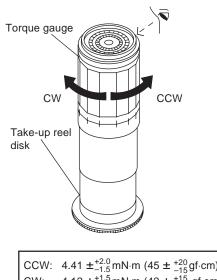
Setting

- 1. Set a torque gauge to zero on the scale. Place it on the supply reel disk.
- Switch from the FF mode to the STOP mode.
- 3. Disconnect the power cord.
- 4. Please check Idler gear not contact with reel relay gear (SU side)

Checking

Turn the torque gauge at a rate of about one turn/2 sec in the CW direction/CCW direction with respect to the supply reel disk so that the reel disk and torque gauge pointer rotate at equal speed, and make sure that the value is within the setting (CW direction: 4.12 ±1.5 mN·m $(42^{+15}_{-1}gf\cdot cm)$; CCW direction: $4.41^{+2.0}_{-1.5}mN\cdot m$ $(45^{+20}_{-15}gf\cdot cm)$.

Checking the brake torque at the take-up side



CCW: $4.41 \pm_{-1.5}^{+2.0} \text{mN·m} (45 \pm_{-15}^{+20} \text{gf·cm})$ $4.12 \pm_{-1.2}^{+1.5} \text{mN·m} (42 \pm_{-1.2}^{+1.5})$

Figure 4-20.

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Setting

- 1. Switch from the FF mode to the STOP mode.
- 2. Disconnect the power cord.
- 3. Set a torque gauge to zero on the scale. Place it on the take-up reel disk.
- 4. Please check Idler gear not contact with reel relay gear (TU side)

Checking

- 1. Turn the torque gauge at a rate of about one turn/2 sec in the CCW direction/CW direction so that the reel disk and torque gauge pointer rotates at equal speed and make sure that the value is within the setting (CCW direction: 4.41 +2.0 mN·m (45 +20 gf·cm), CW direction: 4.12 ^{+1.5}_{-1.2} mN·m (42 ⁺¹⁵₋₁₂gf·cm).
- 2. Adjustment of the brake torque at the supply side and the take-up side
- Unless the supply side brake torque or take-up side brake torque is within the setting, clean the felt surface of reel disk (supply, take-up) brake lever, check again the brake torque.
- If value cannot be set within the setting yet, replace the main brake ass'y or main brake spring.

4-15 REPLACEMENT OF A/C (AUDIO/CONTROL) HEAD

1. In eject position unplug the power cord.

Removal

- Take out FFC holder from main chassis. (Push 3 hooking point and pull-up the holder).
- 2. Remove the screws (1)(2)(3), Tilt screw.
- 3. Unsolder the PWB fitted to the A/C head.

Notes:

- 1. When replacing, never touch the head. If you touched, clean with the cleaning liquid.
- 2. When removing the screw ③, take care so that the spring may out.

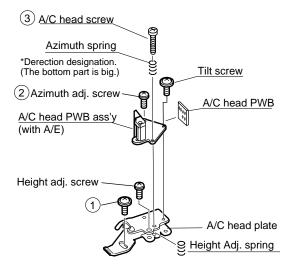


Figure 4-21.

Replacement

- 1. Solder the removed PWB to the new head assembly.
- Adjust the height from the A/C head arm (lower surface) to the A/C head plate to 10.8mm with slide calipers. (3 places of azimuth screw section, tilt screw section and A/ C head front section) (See the figure below.)

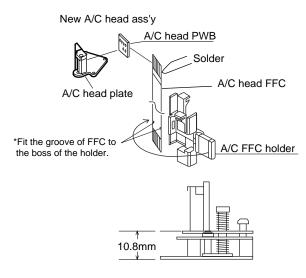


Figure 4-22.

3. Align the left end of gear of A/C head arm with the punched mark of chassis, tentatively tighten the screws ① so as to ensure smooth motion of A/C head arm. Tightening torque must be 0.45 ± 0.05N⋅m (4.5 ± 0.5kgf⋅cm).

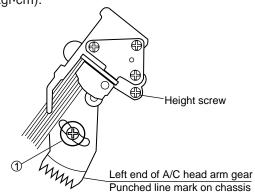


Figure 4-23.

Note:

AC Head

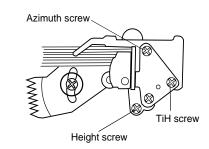
FFC

Holder

- 1. If the screw ① is tighten tentatively too loose, the azimuth and height of A/C head may change when they are finally tightened. Therefore care must be taken.
- 2. After completion of A/C head be sure to adjust tape running. (Execute the running adjustment by the method described in **4-17**.)

4-16 A/C HEAD HEIGHT ROUGH ADJUSTMENT

Setting



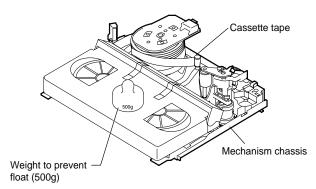


Figure 4-24.

- 1. Set the cassette tape in the unit.
- Press the PLAY button to put the unit in the playback mode.
- Roughly adjust the height of the A/C head by turning the height screw until the tape is in the position shown below.

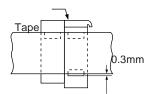


Figure 4-25.

Adjustment

Adjust the height screw visually so that the control head is visible 0.3mm below the bottom of the tape.

4-17 ADJUSTMENT OF TAPE DRIVE TRAIN

- 1. Tape run rough adjustment
 - ① Check and adjust the position of the tension pole. (See **4-12**.)
 - ② Check and adjust the video search rewind back tension. (See **4-10**.)
 - ③ Connect the oscilloscope to the test point for PB ATR signal output (TP201). Set the synchronism of the oscilloscope to EXT. The PB ATR signal is to be triggered by the head switching pulse (TP202).
 - 4 Set the alignment tape (VROCPSV) to play.

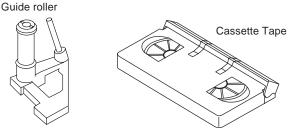


Figure 4-26.

- (5) Press the tracking button (+), (–) and change the ATR signal waveform from max to min and from min to max. At this time make sure that the ATR signal waveform changes nearly parallel.
- ⑥ Unless the ATR signal waveform changes nearly parallel, adjust the height of supply side and take-up side guide roller so that the envelope waveform changes nearly parallel. (For ATR signal adjustment procedure refer to Figure 4-30.)
- 7 Turn the tilt screw to remove the tape crease at the fixing guide flange.

Playback the tape and check for tape crease at the fixing guide flange.

- (1) If there is no tape crease

 Turn the tilt screw clockwise so that tape crease appears once at the flange, and then return the tilt screw so that the crease disappears.
- (2) If there is tape crease

Turn counterclockwise the tilt screw so that the tape crease disappears.

(Reference) If the tilt screw is turned clockwise crease appears at the lower flange.

Notes:

- Previously set the tracking control in the center position, and adjust the ATR signal waveform to maximum with X value adjustment nut. Thereby the tape run rough adjustment is facilitated.
- 2. Especially the outlet side ATR signal waveform must have higher flatness.



Figure 4-27

- 2. Adjustment of A/C head height and azimuth
 - 1 Perform the initial setting of A/C head position by the method stated in "4-15 Replacement 3".
 - ② Connect the oscilloscope to the audio output terminal.
 - ③ Using the alignment tape in which 1 kHz linear audio signal has been recorded, adjust the height screw so as to get max audio output.
 - 4 Using the alignment tape in which 7 kHz linear audio signal has been recorded, adjust the azimuth screw so as to get max audio output.
 - (5) The adjustment of (3) and (4) twice or three times repeat, and finally adjust (4).



For X value adjustment Adjust the X value, turning the geartype screwdriver.

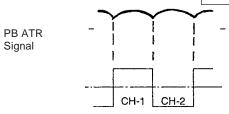
Figure 4-28.

- 3. Tape run adjustment
 - ① Connect the oscilloscope to PB ATR signal output test point, set oscilloscope sync to EXT, trigger-input the PB CHROMA signal (head switching pulse).
 - ② Rough adjustment of X value
 Tentatively fix A/C head arm screws ① by the method described in **4-15** "Replacement 3".

Playback the alignment tape (VROCPSV) and shortcircuit between TP801 and TP802. As a result the auto-tracking is automatically cancelled, so that the X value adjustment mode is set.

Move the A/C head with the X value adjustment gear driver (JiGDRiVER-6) by the method shown in Figure 4-33, and adjust the A/C head so as to get the maximum ATR signal waveform. (Note: When the A/C head is adjusted, adjust so that the maximum ATR signal waveform is obtained nearest the position of initial setting made in **4-15**.)

- ③ Next, press the tracking button (+), (-) and change the ATR signal waveform from max to min and from min to max. At this time adjust the height of supply and take-up side guide roller with the adjustment driver (JiGDRiVERH-4) so that the ATR signal waveform changes nearly parallel.
- ④ If the tape is lifted or sunk from the helical lead surface, the PB ATR signal waveform appears as shown in Figure 4-30.
- (5) Press the tracking button (+), (–) and make sure that the ATR signal waveform changes nearly parallel.
- 6 Finally, check tape crease near the reverse guide. If tape crease is found, adjust tilt screw 45° counter clockwise. Small tape crease will appear at retain guide after this adjustment finished.



Head switching pulse

Figure 4-29.

- 4. A/C head X value adjustment
 - 1 Fix A/C head arm screws 1 by the method described in **4-15** "Replacement 3".
 - 2 Playback the alignment tape (VROCPSV), and shortcircuit between TP801 and TP802. As a result the auto-tracking is automatically cancelled, so that the X value adjustment mode is set.

	When the tape is above the helical lead.		When the tape is below the helical lead.	
	Supply side	Take-up side	Supply side	Take-up side
Adjustment	Supply side guide roller rotated in clockwise direction (lowers guide roller) to flatten ATR signal.	Take-up side guide roller rotated in clockwise direction (lowers guide roller) to flatten ATR signal.	Supply side guide roller rotated in counterclockwise direction (raises guide roller) to make the tape float above the helical lead. The supply side guide roller is then rotated in the clockwise direction to flatten the ATR signal.	Take-up side guide roller rotated in counterclock-wise direction (raises guide roller) to make the tape float above the helical lead. The take-up side guide roller is then rotated in the clockwise direction to flatten the ATR signal.

Figure 4-30.

- ③ Move the A/C head with the X value adjustment gear driver by the method shown in Figure 4-33, and adjust the A/C head so as to get the maximum ATR signal waveform. (Note: At this time adjust so as to get the maximum ATR signal waveform nearest the A/C head position which has been set in case of X value rough adjustment as stated in 4-17, 3- ②.)
- 4 Adjust the playback switching point (Refer to the electric adjustment method.)
- (5) Playback the self-picture-recorded tape, and check the flatness of ATR signal waveform and sound.

Notes:

When the A/C head X value adjustment is performed, be sure to perform at first X value rough adjustment (refer to 4-17, 3-2).

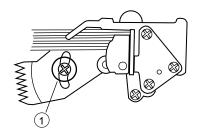


Figure 4-31.

4-18 REPLACEMENT OF THE CAPSTAN D.D. (DIRECT DRIVE) MOTOR

- · Remove the mechanism from the set.
- Removal (Follow the order of indicated numbers.)
- Unsolder loading motor wire and drum FFC (except for VC-A50S).
- 2. Remove the reel belt 1.
- 3. Remove the three screws (2).

Reassembly

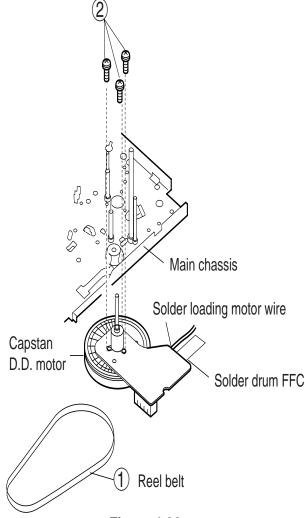


Figure 4-32.

- Taking care so that the capstan shaft does not contact the mechanism chassis, set its position on the mechanism chassis, and then install with the three screws.
- 2. Install the reel belt.
- 3. Solder loading motor wire and insert drum FFC (except for VC-A50S).

Notes:

- 1. After installing the capstan D.D. motor, be sure to rotate the capstan D.D. motor and check the movement.
- Set the tape, and check for the tape crease near the reverse guide in the playback mode. Adjust the A/C head and azimuth as stated in 4-17 item 2.

4-19 REPLACEMENT OF DRUM D.D. MOTOR

- 1. Set the ejection mode.
- 2. Withdraw the main power plug from the socket.

• Removal (Perform in numerical order.)

- 1. Disconnect the FFC cable ①.
- 2. Unscrew the D.D. stator assembly fixing screws ②.
- 3. Take out the D.D. stator assembly ③.
- 4. Unscrew the D.D. rotor assembly fixing screws 4.
- 5. Take out the D.D. rotor assembly (5).

Notes:

- In removing the D.D. stator assembly, part of the drum earth spring pops out of the pre-load collar. Be careful not to lose it.
- Install, so that the D.D. rotor ass'y and upper drum ass'y mounting direction check holes align. (Align the upper drum dent with the rotor hole.)
- Be careful not to damage the upper drum or the video head.
- 4. Protect the hole elements from shock due to contact with D.D. stator or D.D. rotor ass'y.
- 5. After installation adjust the playback switching point for adjustment of servo circuit.

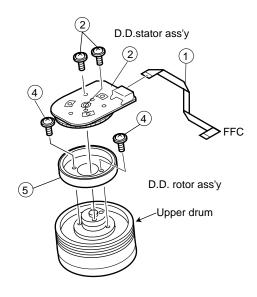


Figure 4-33.

4-20 REPLACING THE UPPER AND LOWER DRUM ASSEMBLY

- Replacement (Perform in the numerical order)
- Remove the motor as stated in 4-19 D.D. motor replacement.
- 2 Remove the drum earth brush ass'y 2.
- (3) Remove the upper and lower drum assembly from main chassis (1).
- 4 Remove the drum FFC holder 3.

[Cares when replacing the drum]

- 1. Be careful so that the drum earth brush is not lost.
- 2. Do not touch directly the drum surface.
- 3. Fit gently the screwdriver to the screws.
- 4. Since the drum assembly is an extremely precise assembly, it must be handled with utmost care.
- 5. Make sure that the drum surface is free from dust, dirt and foreign substances.
- 6. After replacing the drum be sure to perform the tape running adjustment.

After that, perform also the electrical adjustment.

- · Playback switching point adjustment
- X-position adjustment and check
- Standard and x-3 slow tracking adjustment
- 7. After replacing the drum clean the drum.

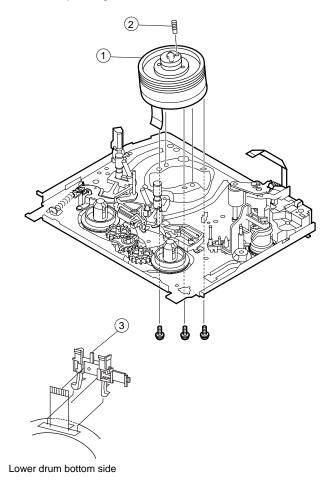


Figure 4-34.

4-21 ASSEMBLING OF PHASE MATCHING MECHANISM COMPONENTS

- Assemble the phase matching mechanism components in the following order.
- 1. Assemble the reverse guide lever and pinch drive cam.
- 2. Mounting the shifter (on the back of the mechanism chassis).
- 3. Mounting the master cam (on the back of the mechanism chassis).
- 4. Assemble synchro gear.
- 5. Assemble the loading motor parts.

PINCH DRIVE CAM AND REVERSE GUIDE LEVER ASSEMBLING METHOD.

(Place the following parts in position in numerical order.)

- (1)Pinch drive cam (1)
- (2) Reverse guide spring (2)
- (3) Reverse guide lever ass'y (3)
- (4)Open guide (4)

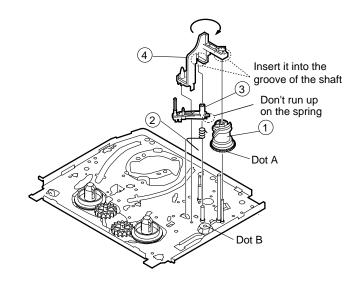
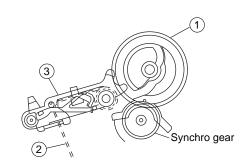
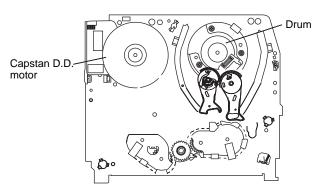


Figure 4-35.



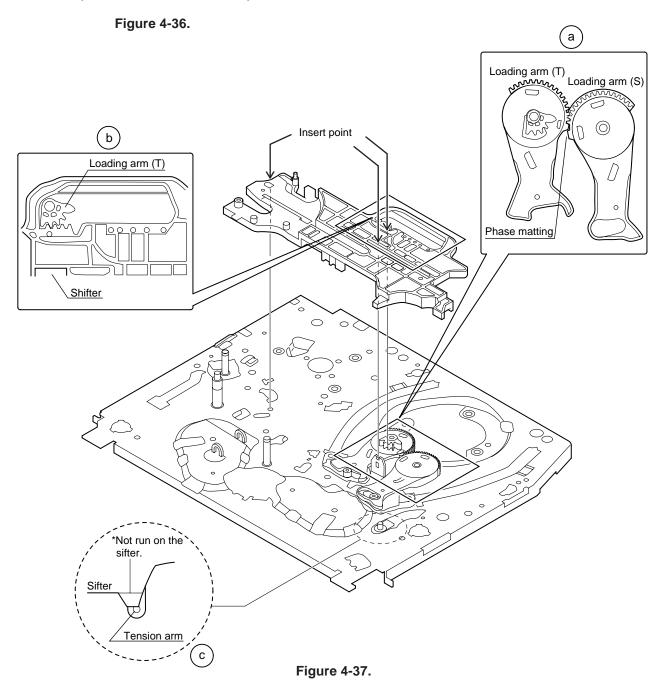
From Top View

4-22 INSTALLING THE SHIFTER



(Bottom side of mechanism chassis)

- 1. Make sure that the loading arm T and S are at the Phase-Matching point as shown below (a).
- 2. Fix the shifter position setting part to the roading arm T position setting part as shown in figure **(b)**
- 3. Make sure tension arm not run on the shifter as shown in figure ©.



4-23 INSTALLING THE MASTER CAM (AT REAR SIDE OF MECHANISM CHASSIS)

- 1. Make sure beforehand that the shifter is at initial position. (Right side from bottom view)
- 2. Place the master cam in the position as shown below.
- 3. Fix the E ring.

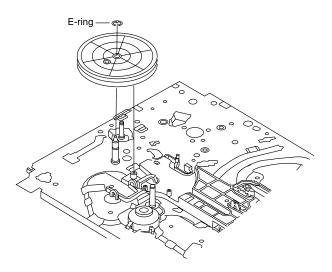


Figure 4-38-1.

4. Adjust the master cam and pinch drive cam, fix the synchro gear in correct position.

Note:

See the figure below for the phase matching between the master cam synchro gear and pinch drive cam.

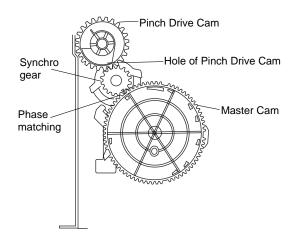


Figure 4-38-2.

4-24 REPLACEMENT OF LOADING MOTOR

Removal

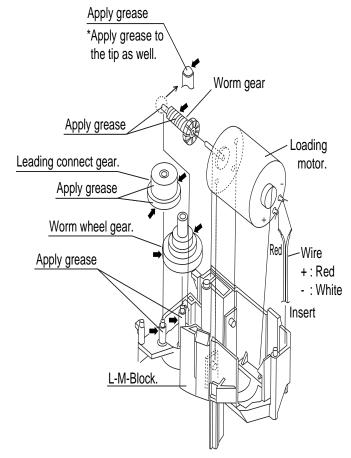


Figure 4-39.

Replacement

Remove the loading motor, and install the replacement loading motor as shown below.

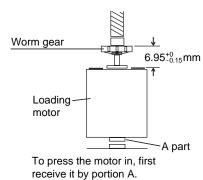


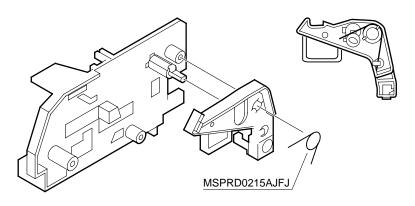
Figure 4-40.

The loading motor pressing-in must be less than 196N (20 kgf).

Adjust the distance between motor and pulley to 6.95 $^{+0}_{-0.15}$ mm.

4-25 ASSEMBLY OF CASSETTE HOUSING

1. Proof lever Proof lever spring and Holder R



*Proof lever spring fixing direction designated.

Figure 4-41.

2. Open lever, Sensor Plate and Frame R

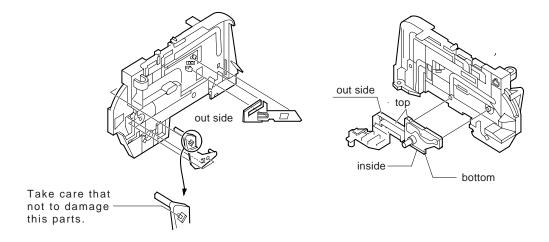


Figure 4-42.

3. Spring to Drive Arm R

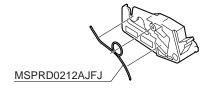


Figure 4-43.

4 Frame R, Frame L, Drive Arm R, Drive Arm L, Upper Plate.

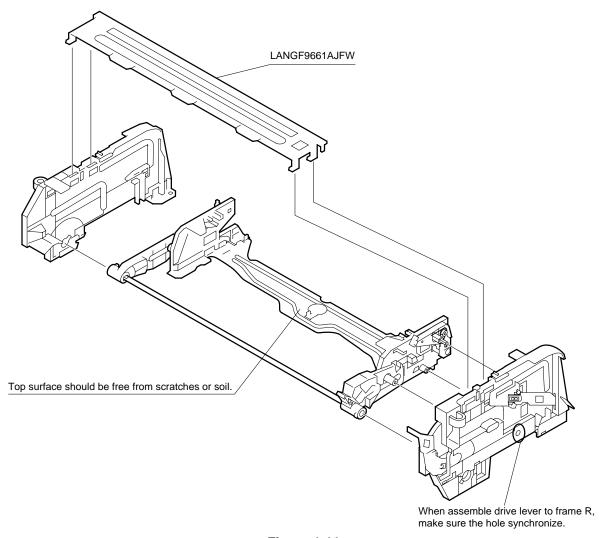


Figure 4-44.

5. ELECTRICAL ADJUSTMENT

Notes:

• Before the adjustment:

Electrical adjustments discussed here are often required after replacement of electronic components and mechanical parts such as video heads.

Check that the mechanism and all electric components are in good working condition prior to the adjustments, otherwise adjustments can not be completed.

- Instruments required:
 - Colour TV monitor
 - Audio signal generator
 - OBlank video cassette tape
 - © Screwdriver for adjustment
 - Colour bar singnal generator

- O Dual-trace oscilloscope
- O AC milli-voltmeter
- Alignment tape(VROCPSV)

· Location of controls and test points

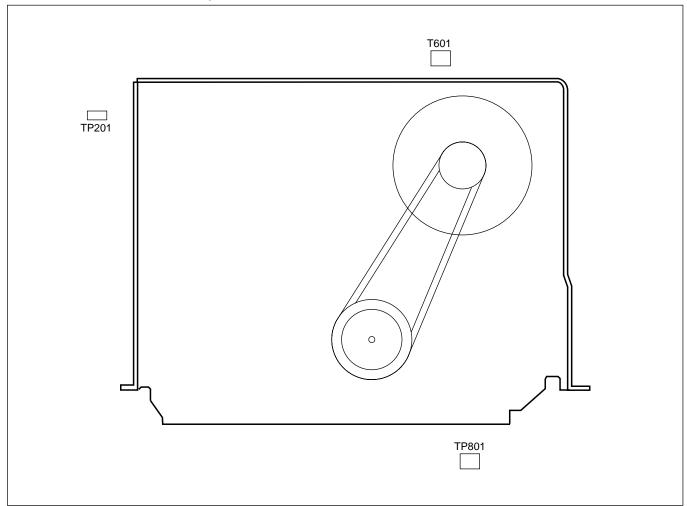


Figure 5-1.

SERVO CIRCUIT ADJUSTMENT

ADJUSTMENT OF HEAD SWITCHING POINT

Measuring instrument	Dual-trace oscilloscope Colour TV monitor		
Mode	Playback		
Cassette	Alignment tape Head Tape 2 CBZF 2LP BBZG 4 CBZF 4HiFi CBZF		
Test point	Pin(2) of P201 (H.SW.P.) to CH-1, VIDEO OUT jack to CH-2 (CH-1 trigger slope switch at (+), Internal trigger at CH-1 side.)		
Specification	6.5 ± 0.5H (lines)		

- 1. Remove the front panel and play the alignment tape.
- 2. Get TP801 short circuited or press press "TEST"key(47H) at Universal remote control to call the test mode. (LCD will blinking as tracking goes to center)
- Press "PLAY" key.
 Auto PG Mode will be ON and playback mark " ▶ "
 blinking.
- 4. Press "STOP" key
 - " ▶ " blinking stops and auto adjustment finished.
- 5. Check that V-Sync is 6.5±0.5H and the waveform is as shown in Figure 5-2.

Note:

Formanual PG Adjustment, press FF or REW key at the Test Mode to set the tracking in center.

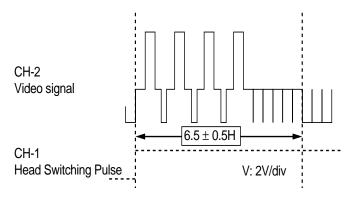


Figure 5-2.

ADJUSTMENT OF PAL SYSTEM FV (False Vertical Sync) OF STILL PICTURE

Measuring instrument	Colour TV monitor
Mode	Playback still
Cassette	Self-recorded tape (SP/LP,EP mode) (See Note below 1)
Control	Tracking control buttons (+) or (-)
Specification	No vertical jitter of picture

- 1. Play a self-recorded tape.
- 2. Press the PAUSE/STILL button to freeze the picture.
- 3. Adjust (+) or (-) TRACKING buttons on the remote control so that the vertical jitter of the picture is minimized.

Note:

- ① Self-recorded tape is a cassette which program was recorded by the unit being adjusted.
- ② The FV goes back to the it's initial state when the unit is put into the system controller reset mode due to power failure,etc.

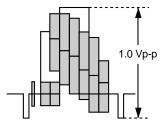
In this case, preset the FV once again.

Y/C CIRCUIT ADJUSTMENT

CHECKING OF VIDEO E-E LEVEL

Measuring instrument	Oscilloscope
Mode	E-E or Record
Input signal	EIA colour bar (1.0Vp-p)
Test point	VIDEO OUT jack
Specification	1.0 ± 0.2 Vp-p

- Connect a 75 ohm terminating resistor to the VIDEO OUT jack and connect an oscilloscope across this termi-nating resistor.
 - (See Note below.)
- 2. Feed a colour bar signal to the VIDEO IN jack.
- 3. Make sure that the E-E signal amplitude is 1.0Vp-p as shown in Figure 5-3.



Note:

If the 75 ohm terminating resistor is missing, the signal amplitude will be doubled.

Figure 5-3.

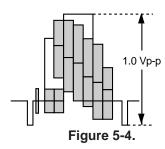
CHECKING OF PLAYBACK LEVEL

Measuring instrument	Oscilloscope
Mode	Record/Playback
Cassette	Self-recorded tape (See Note below 1)
Specification	1.0 ± 0.2 Vp-p

- 1. Be sure that E-E level has been correctly specificed.
- 2. Connect a 75 ohm terminating resistor to the VIDEO OUT jack and connect an oscilloscope across this terminating resistor.(See Note below 1)
- 3. Play a self-recorded tape.
- 4. Make sure that the output signal amplitude is 1.0Vp-p as shown in Figure 5-4.

Note:

- 1 If the 75 ohm terminating resistor is missing, the signal amplitude will be doubled.
- ② Self-recorded tape is a tape which program was recorded by the unit being adjusted.



AUDIO CIRCUIT ADJUSTMENT

CHECKING OF E-E LEVEL

Measuring instrument	AC milli-voltmeter
Mode	E-E/Record
Input signal	1kHz, –8.0 dBs (at RCA type jack)
Test point	AUDIO OUT jack
Specification	-8.0 ± 3 dBs

- 1. Connect an AC milli-voltmeter to the AUDIO OUT jack.
- 2. Feed the audio signal shown in table to the AUDIO IN jack.
- 3. Put the unit in E-E or recording mode.
- 4. Make sure that the output level is value shown in table.

CHECKING OF AUDIO RECORD LEVEL

Measuring instrument	AC milli-voltmeter
Mode	Record/playback
Input signal	1kHz, -8.0 dBs
Test point	AUDIO OUT jack
Specification	-8.0 ± 3 dBs

- 1. Connect an AC milli-voltmeter to the AUDIO OUT jack.
- 2. Feed the audio signal shown in table to the AUDIO IN iack.
- 3. Make the self-recording and playback of the signal.
- 4. Make sure that the output level is value shown in table.

CHECKING OF ERASE VOLTAGE AND OSCILLA-TION FREQUENCY

Measuring instrument	Oscilloscope
Mode	Record
Test point	Full erase head
Control	T601
Specification	70 ± 5kHz, 40Vp-p or greater

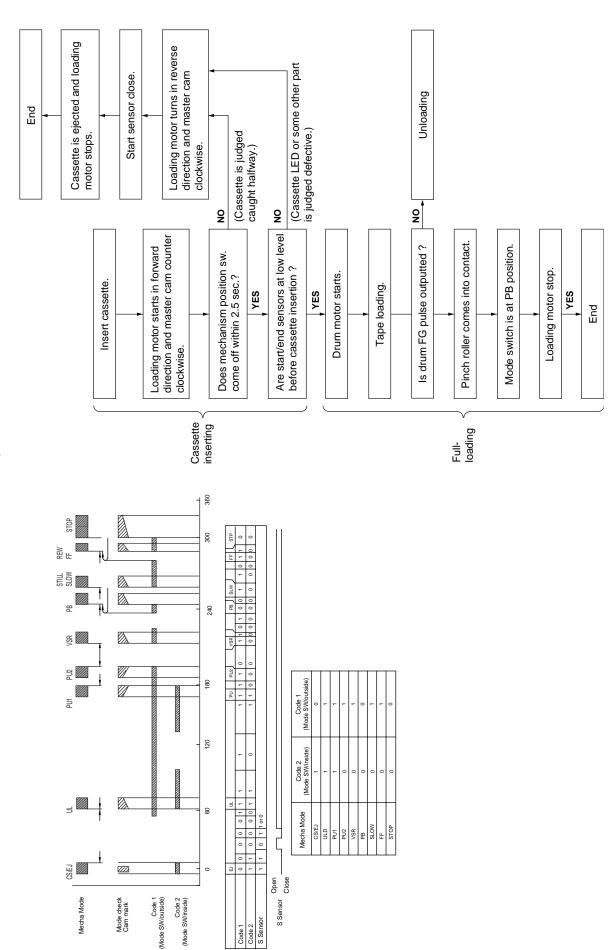
- 1. Connect an oscilloscope across the full erase head.
- 2. Put the unit in recording mode.
- 3. Make sure the erase voltage across the full erase head is approx. 40Vp-p or more and frequency is 70 ± 5 kHz.

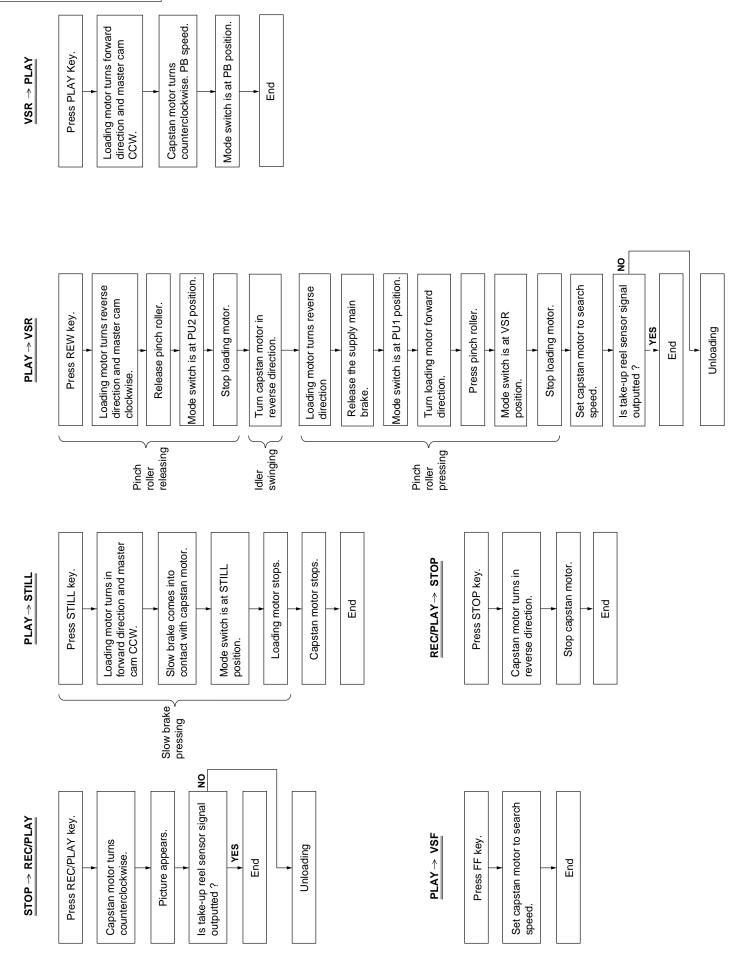
6. MECHANISM OPERATION FLOWCHART AND TROUBLESHOOTING GUIDE

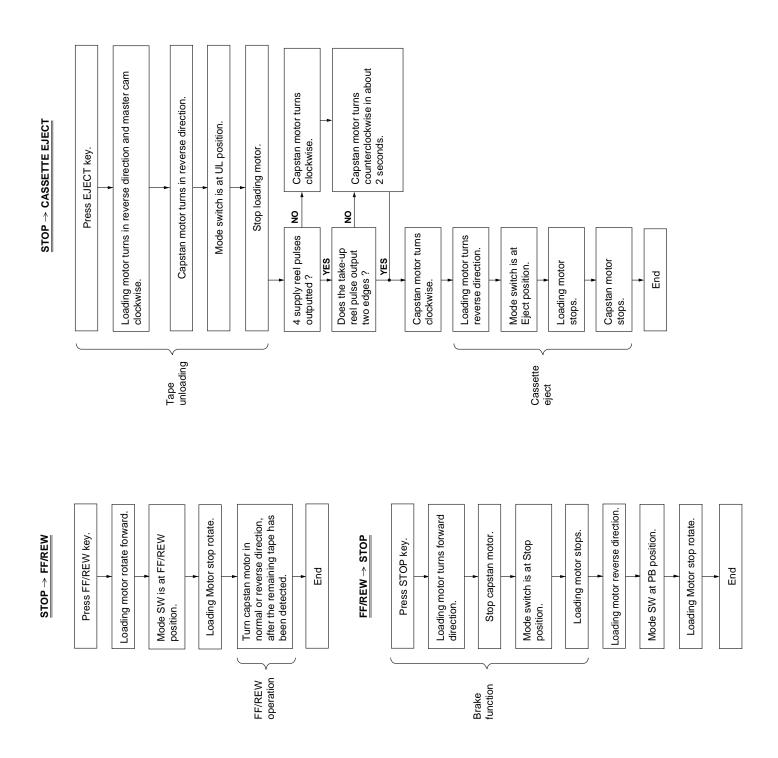
MECHANISM OPERATION FLOWCHART

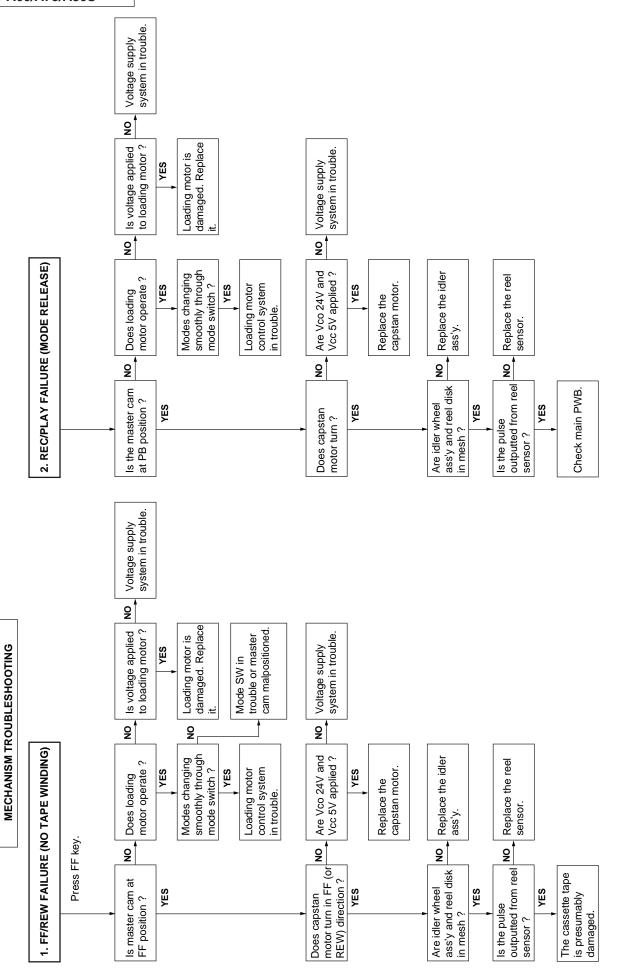
* This flowchart describes the outline of the mechanism's operation, but does not give its details.

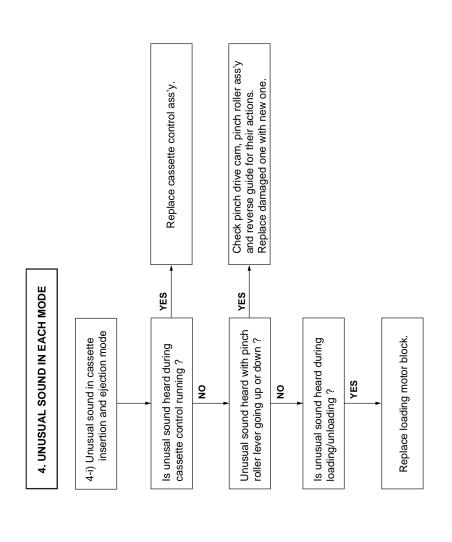
CASSETTE INSERTION -> STOP

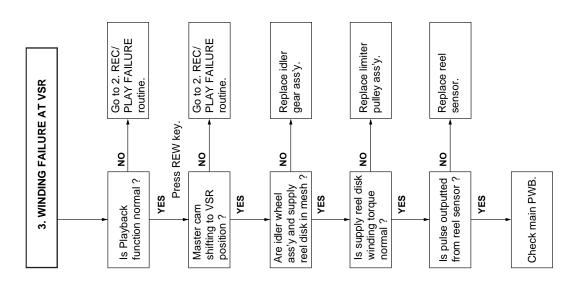


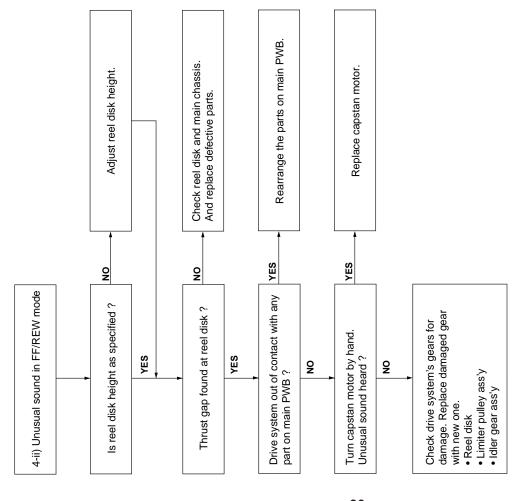




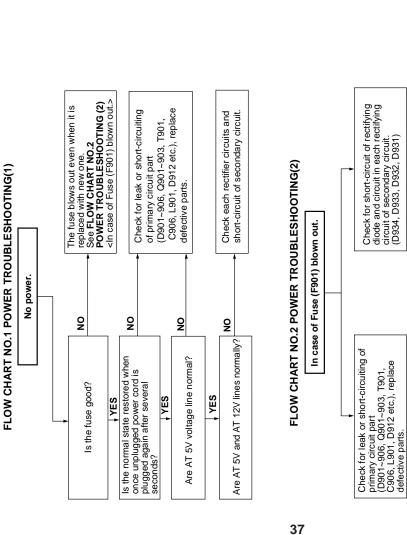








7. TROUBLESHOOTING



defective parts. (IC901, IC903, Q902, T901, etc.)

Check the circuit and replace

9

Check whether the primary side photocoupler output control function normally.

YES

Replace IC901.

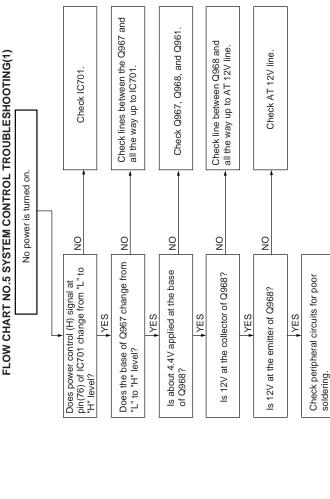
defective parts. (IC901, IC903, etc.)

Check the circuit and replace

9

Check whether the secondary side photocoupler circuit operates normally.

FLOW CHART NO.4 POWER TROUBLESHOOTING(4) In case of output voltage at low level.

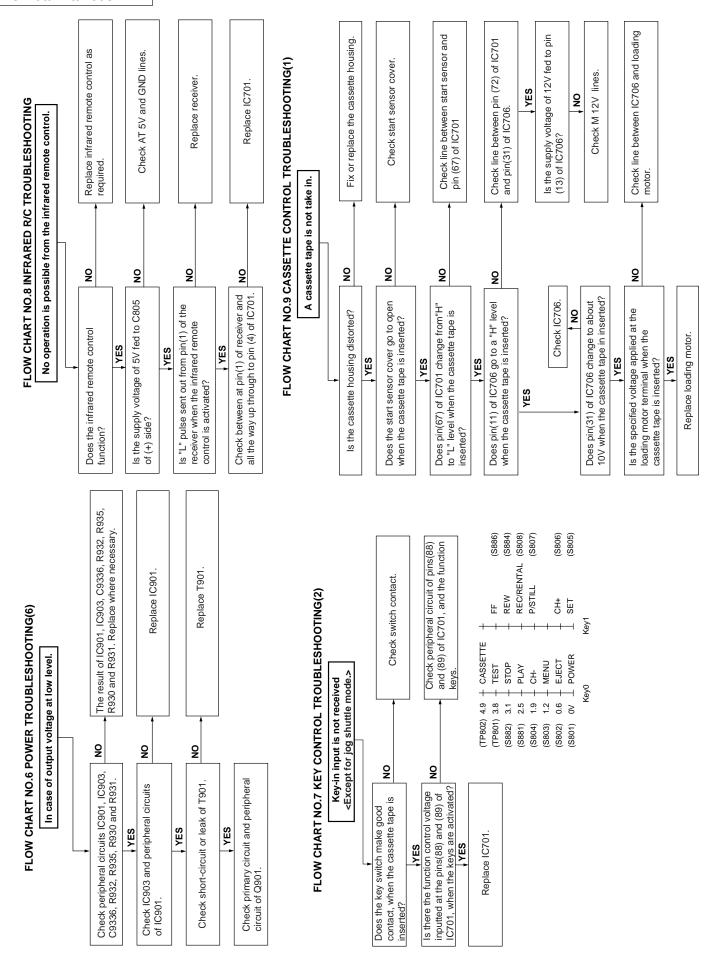


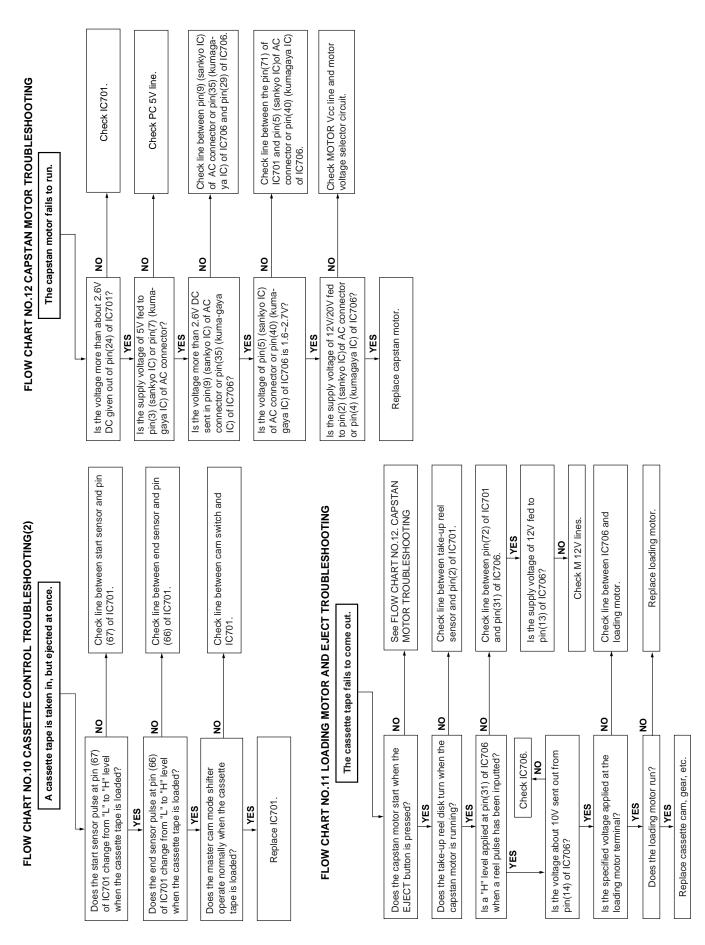
diode and circuit in each rectifying circuit of secondary circuit. (D934, D933, D932, D931)

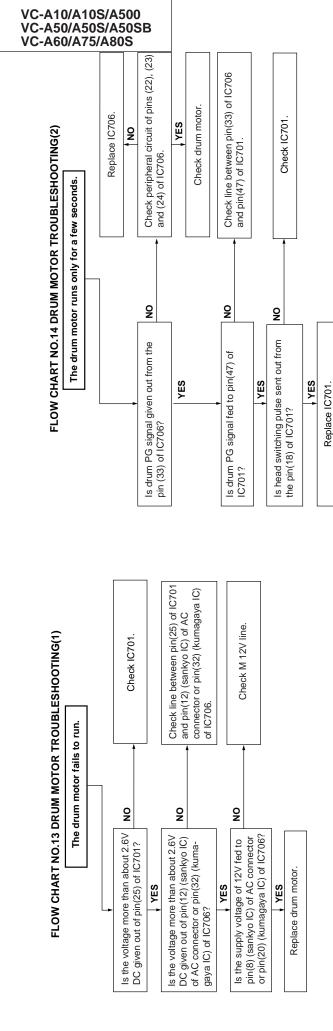
Check for short circuit of rectifying diode of each rectifying circuit of secondary circuit and check for shunt regulator circuit. (D934, D933, IC903, C9335~9336)

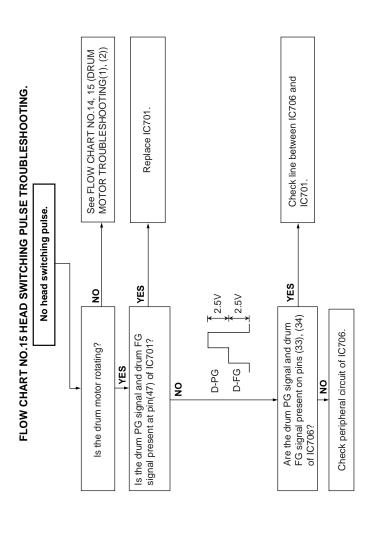
FLOW CHART NO.3 POWER TROUBLESHOOTING(3)

In case of abnormal noise (sound).



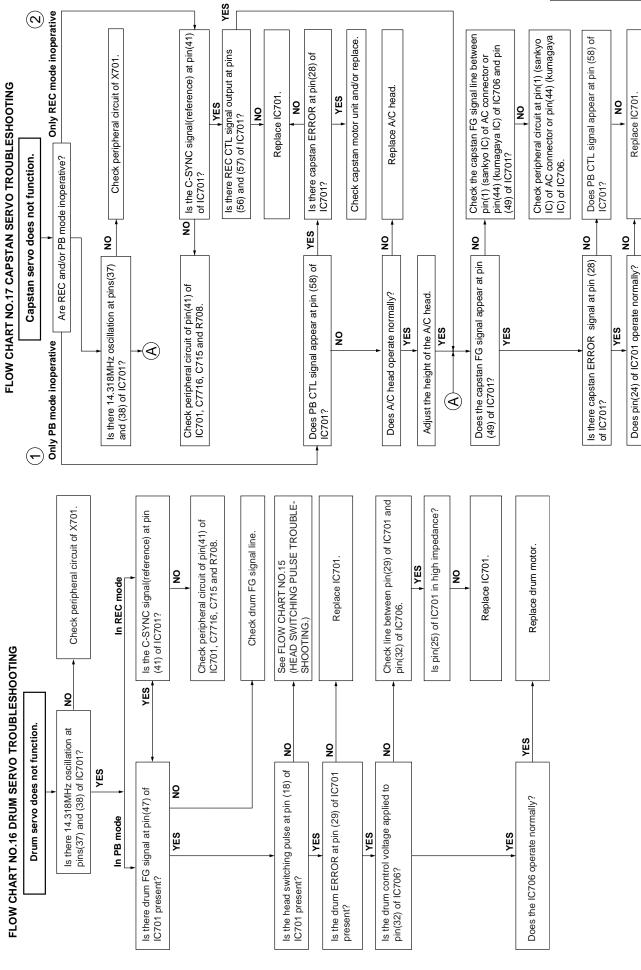


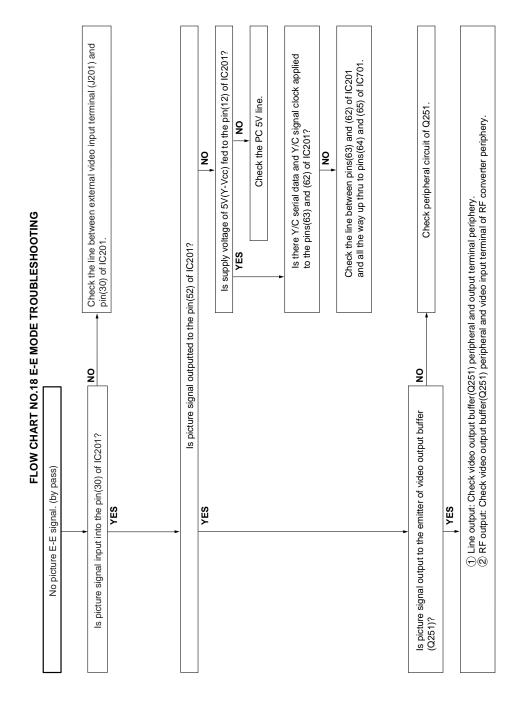


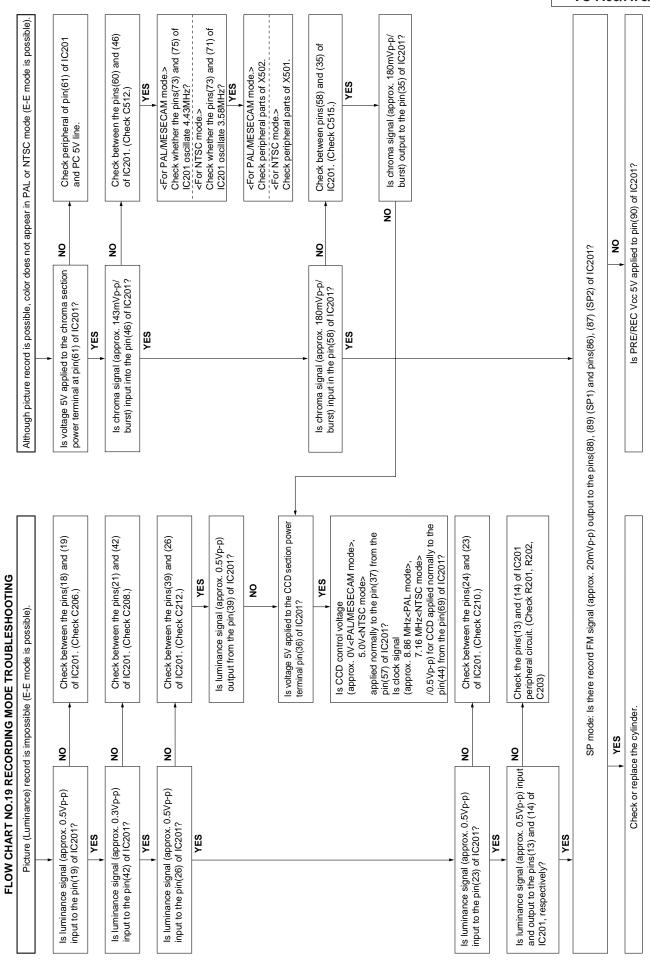


Check "2"

9



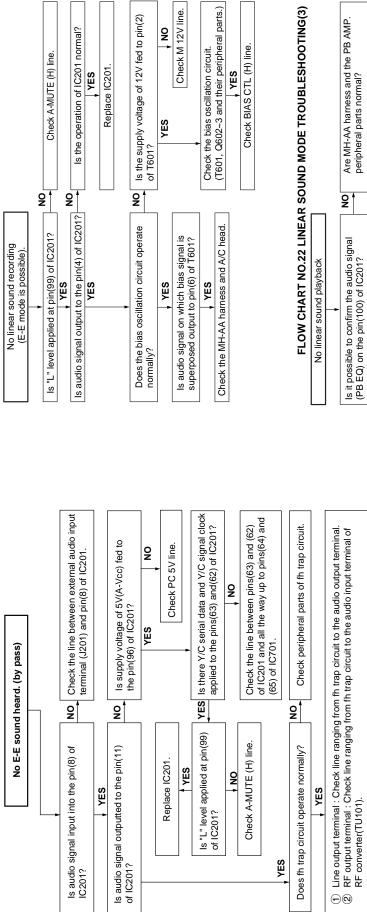


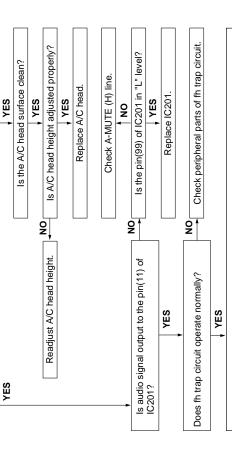


FLOW CHART NO.21 LINEAR SOUND MODE TROUBLESHOOTING(2)

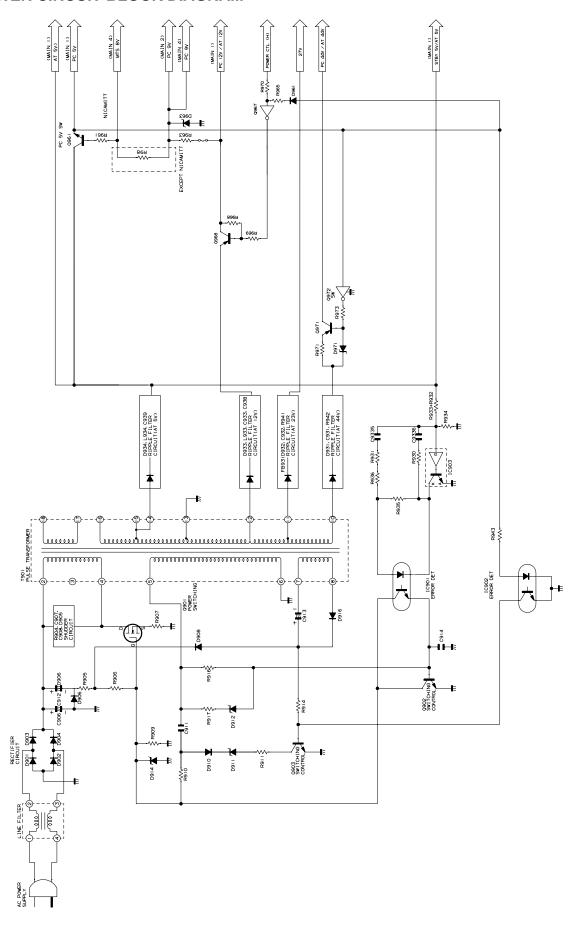
(Except VC-A10)

FLOW CHART NO.20 LINEAR SOUND MODE TROUBLESHOOTING(1) (Except VC-A10)

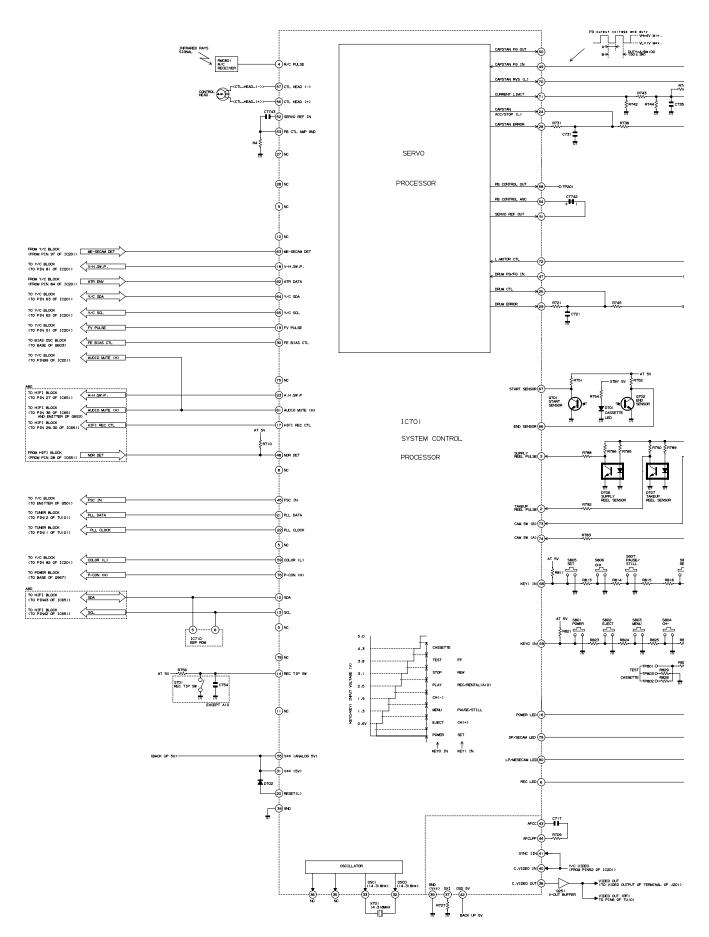


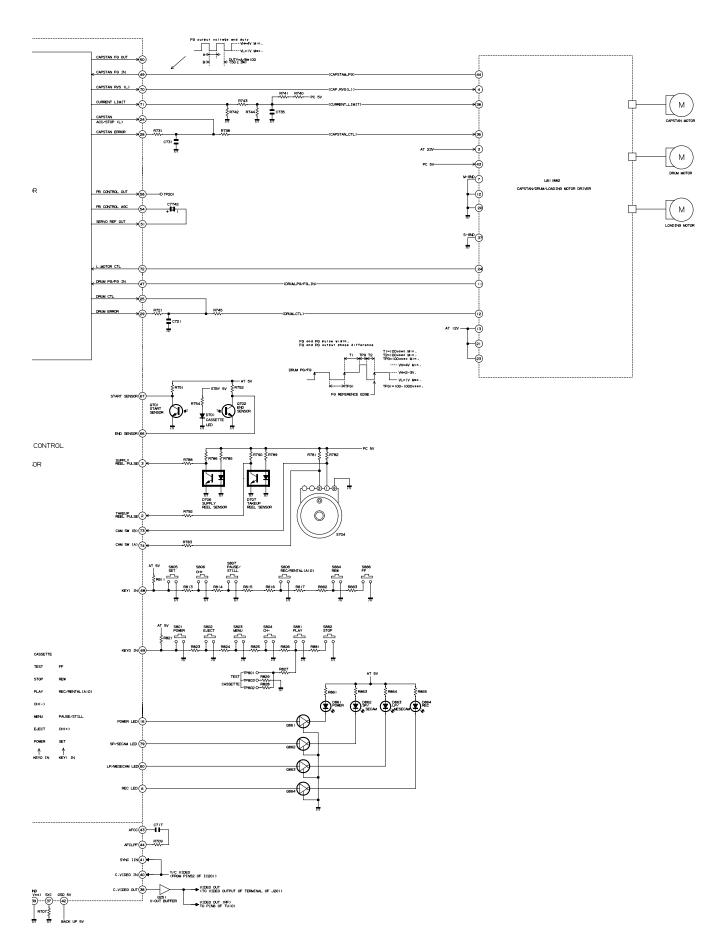


8. BLOCK DIAGRAM POWER CIRCUIT BLOCK DIAGRAM

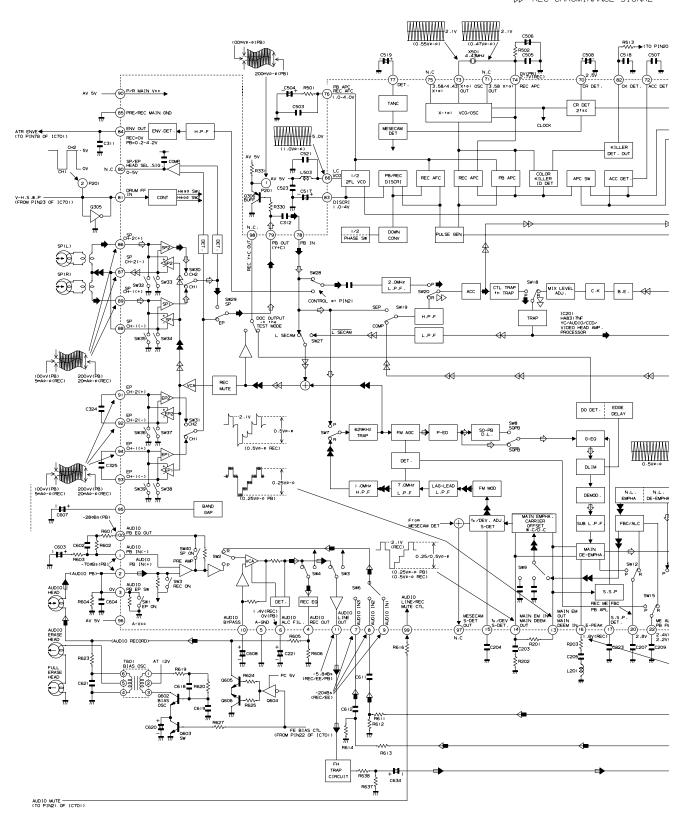


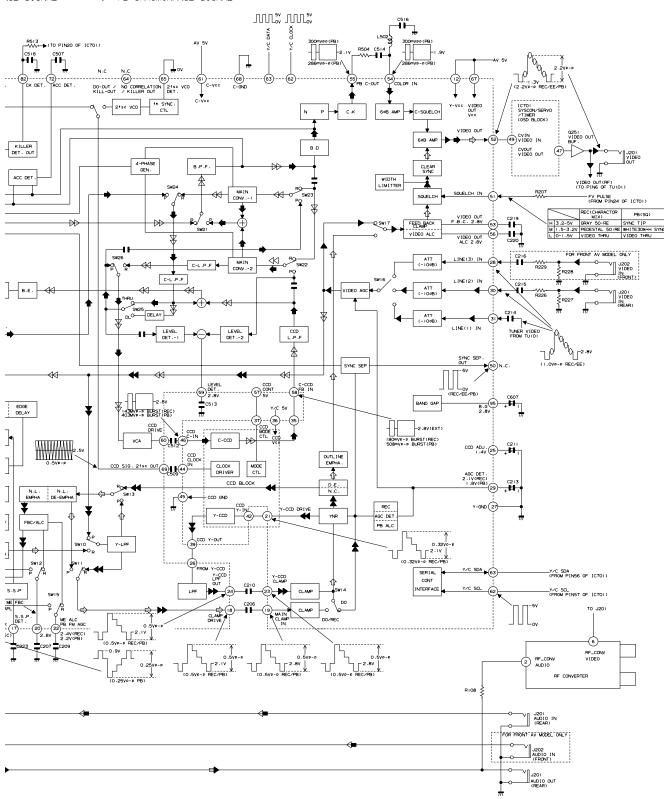
SYSTEM SERVO BLOCK DIAGRAM





SIGNAL FLOW BLOCK DIAGRAM(VC-A10/A10S/A500/A50/A50S/A50S(B)/A60)



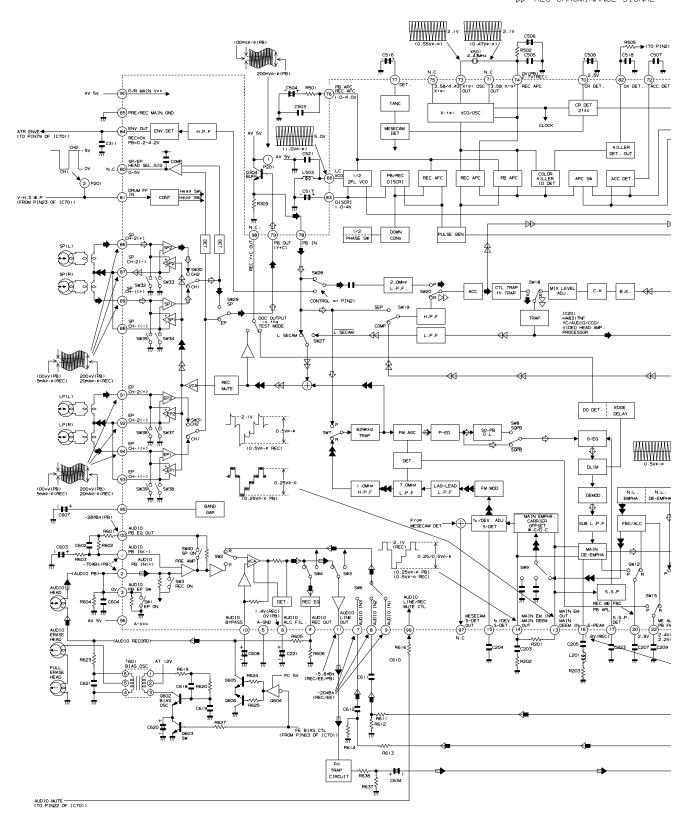


RECORDING SIGNAL AUDIO PLAYBACK SIGNAL

SIGNAL FLOW BLOCK DIAGRAM(VC-A75)

► E-E SIGNAL ► REC LUMINANCE SIGNAL

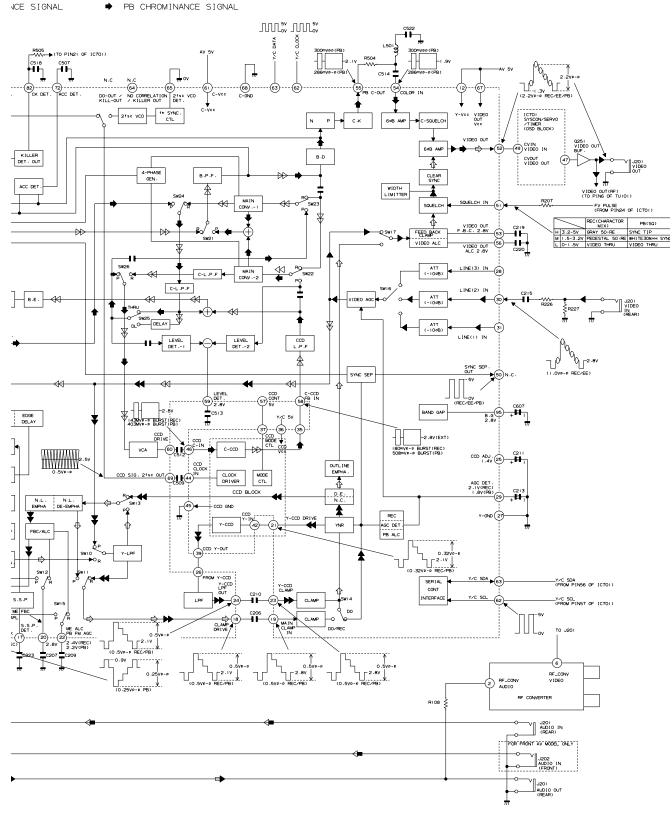
D> REC CHROMINANCE SIGNAL



AUDIO RECORDING SIG

E SIGNAL

→ PB LUMINANCE SIGNAL



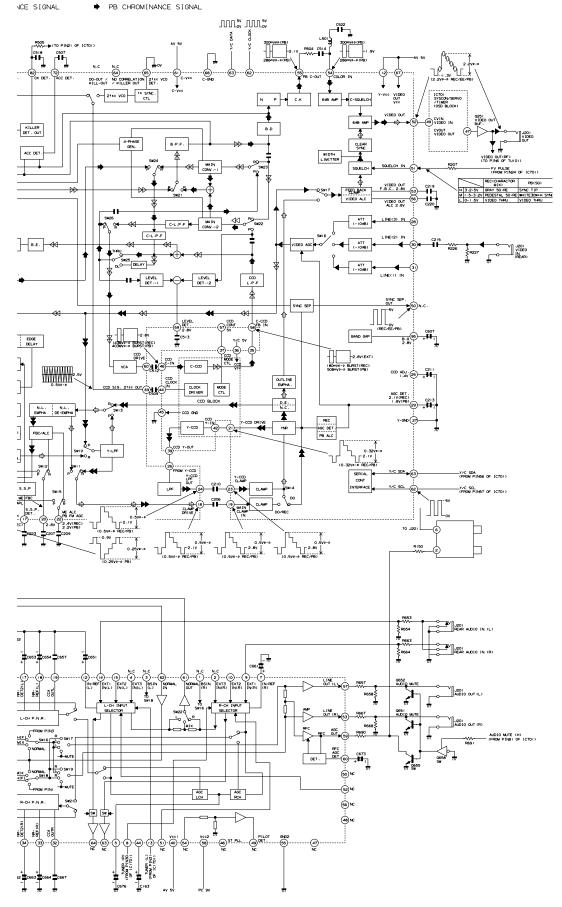
RECORDING SIGNAL - AUDIO PLAYBACK SIGNAL

SIGNAL FLOW BLOCK DIAGRAM(VC-A80S)

► E-E SIGNAL AUDIO RECORDING SIGNAL ▶ REC LUMINANCE SIGNAL PAL 2002 VCP D> REC CHROMINANCE SIGNAL HIFI MODEL SIGNAL FLOW BLOCK DIAGRAM TANC CR DET C503 ENV OUT ENV.DET. MESECAM DET ATR ENVE 4 V-H.S.W.P (FROM PIN23 OF PHASE SW MIX LEVEL ADJ. H.P.F DOC OUTPUT DO DET . EDGE DELAY ₽ DET. DL IM 100uv (FB) 200uv (FB) 56AP-0 (REC) 200AP-0 (FB DEMOD BAND GAP AUDIO ERASE HEAD FULL ERASE HEAD AUDIO MUTE (TO PINS) OF ICTO) A-H.S.W.P (FROM PIN28 OF IC701) NOR DET. (FROM PINSS OF IC701) HIFT REC CTL (FROM PIN22 OF IC701) I IC DATA 36) MUTE CTL AUDIO MUTE (H)-(FROM PINS) OF IC701 NOISE DET/ REC AGC DE HIFTI HEAD REC L.P.F. L-OH VCO LINEAR SW P6 L.P.F MIX REC VREF VCO-1h LOGIC ---(A) CTL ---(B) RF (R) C666 35 R680

NG SIGNAL → AUDIO PLAYBACK SIGNAL

SIGNAL → PB LUMINANCE SIGNAL



SCHEMATIC DIAGRAM

IMPORTANT SAFETY NOTICE:

SPECIFIED PART NUMBER.

BE SURE TO USE GENUINE PARTS FOR SE-CURING THE SAFETY AND RELIABILITY OF THE SET

PARTS MARKED WITH " A " AND PARTS SHADED (IN BLACK) ARE ESPECIALLY IMPORTANT FOR MAINTAINING THE SAFETY AND PROTECTING ABILITY OF THE SET.

BE SURE TO REPLACE THEM WITH PARTS OF

SAFETY NOTES:

- 1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
- 2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZ-ARDS WHEN THE CHASSIS IS OPERATING.

NOTES:

- 1. The unit of resistance "ohm" is omitted (k=1000 ohm, M=1 Meg ohm).
- 2. All resistors are 1/8 watt, unless otherwise noted.
- 3. The unit of capacitance "F" is omitted ($\mu=\mu F$, $p=\mu uF$).
- 4. The values in parentheses are the ones in the PB mode; the values without parentheses are the ones in the REC mode.

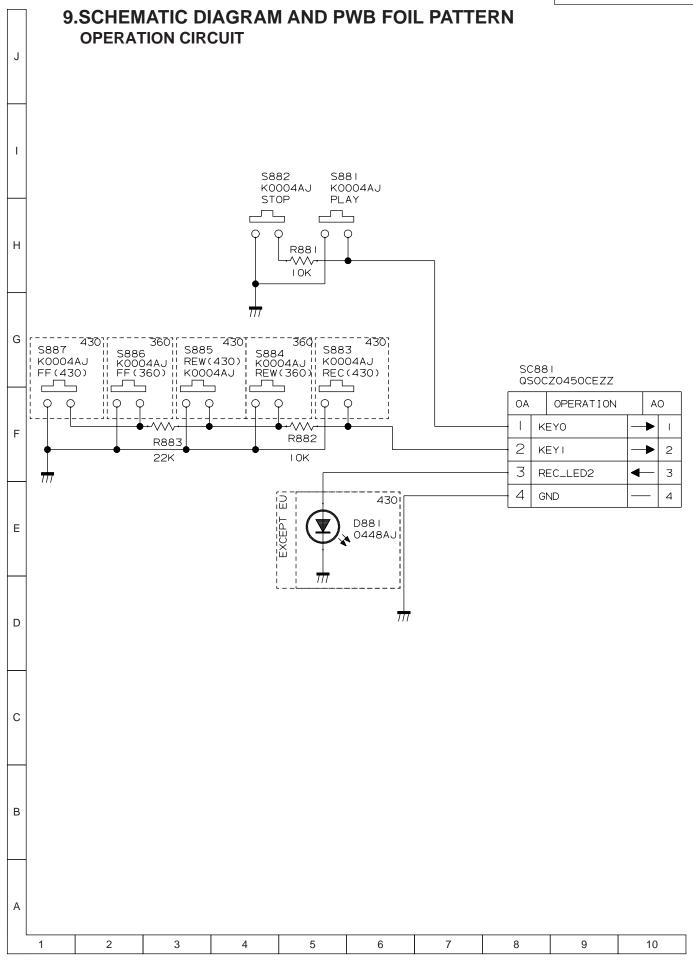
VOLTAGE MEASUREMENT CONDITIONS:

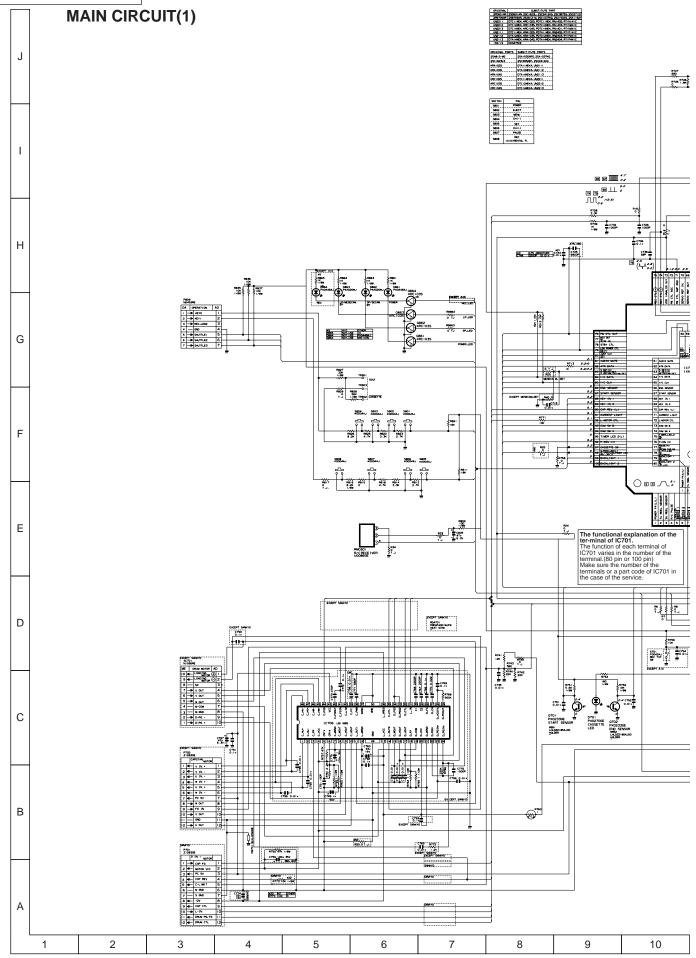
- DC voltages are measured between points indicated and chassis ground by VTVM, with AC230V~240V/50Hz supplied to unit and all controls are set to normal viewing picture unless otherwise noted.
- 2. Voltages are measured with 10000μV B & W or colour noted.

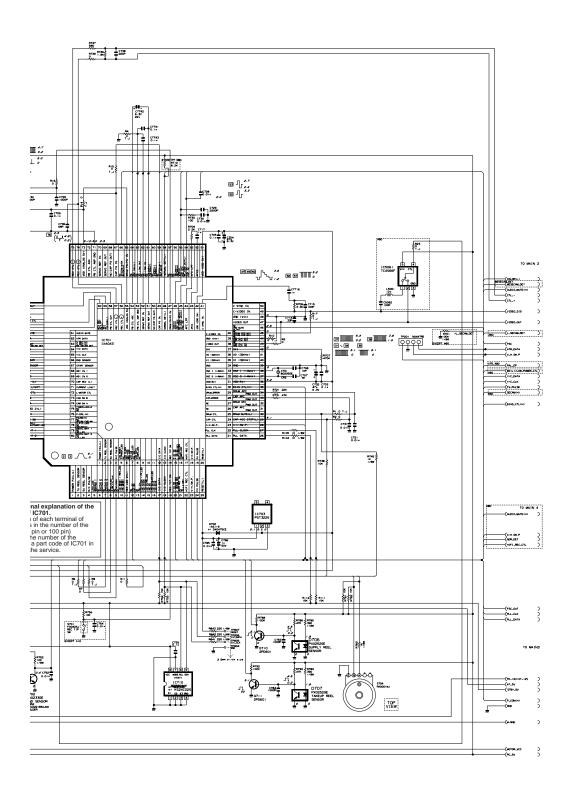
WAVEFORM MEASUREMENT CONDITIONS: 10000μV 87.5 percent modulated colour bar signal is fed into tuner.

CAUTION:

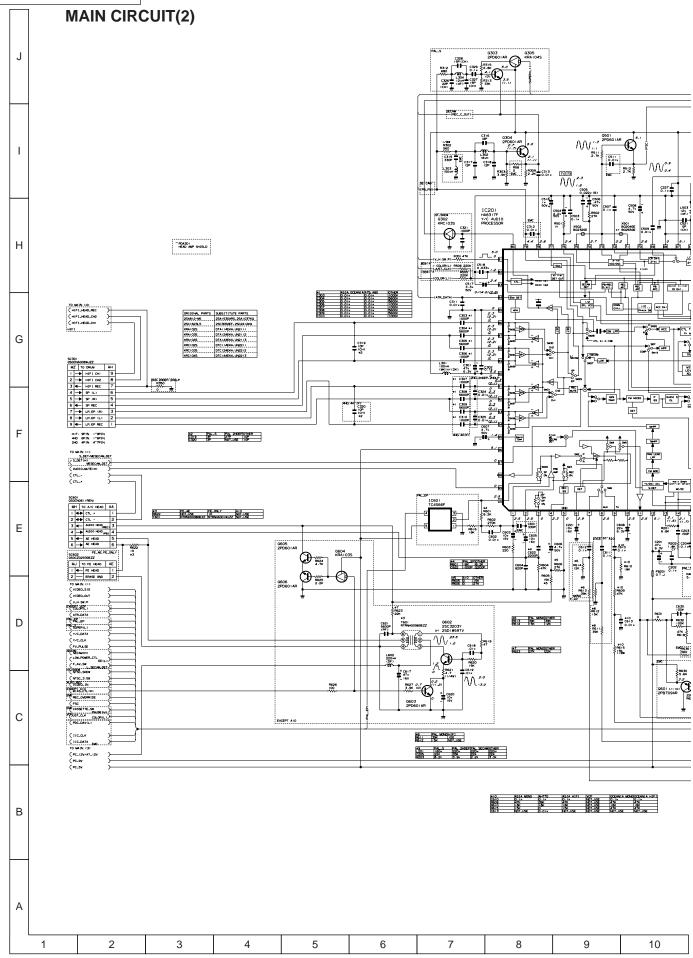
This circuit diagram is original one. Therefore there may be a slight difference from yours.

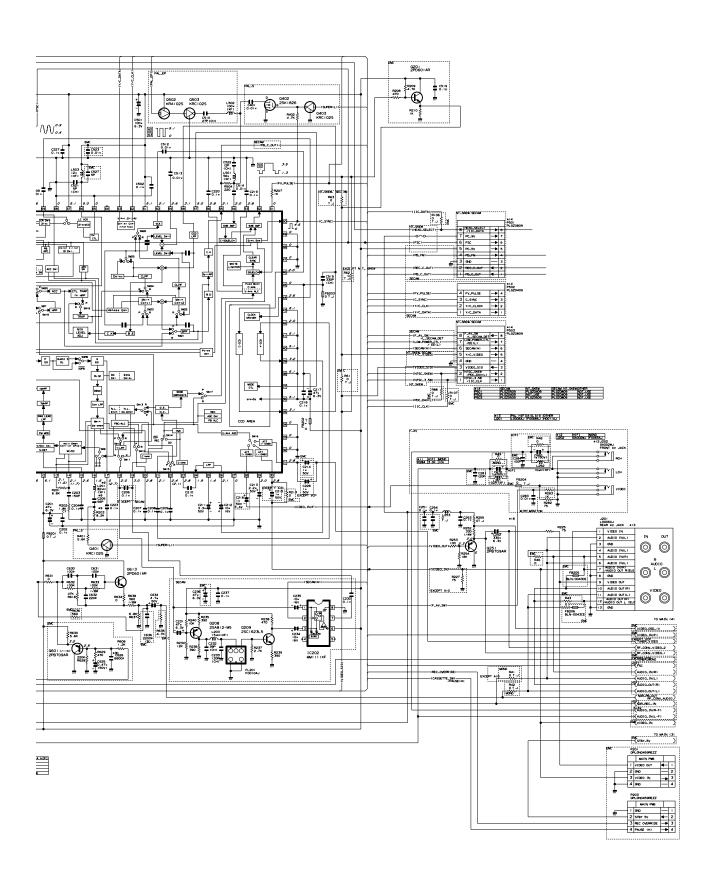


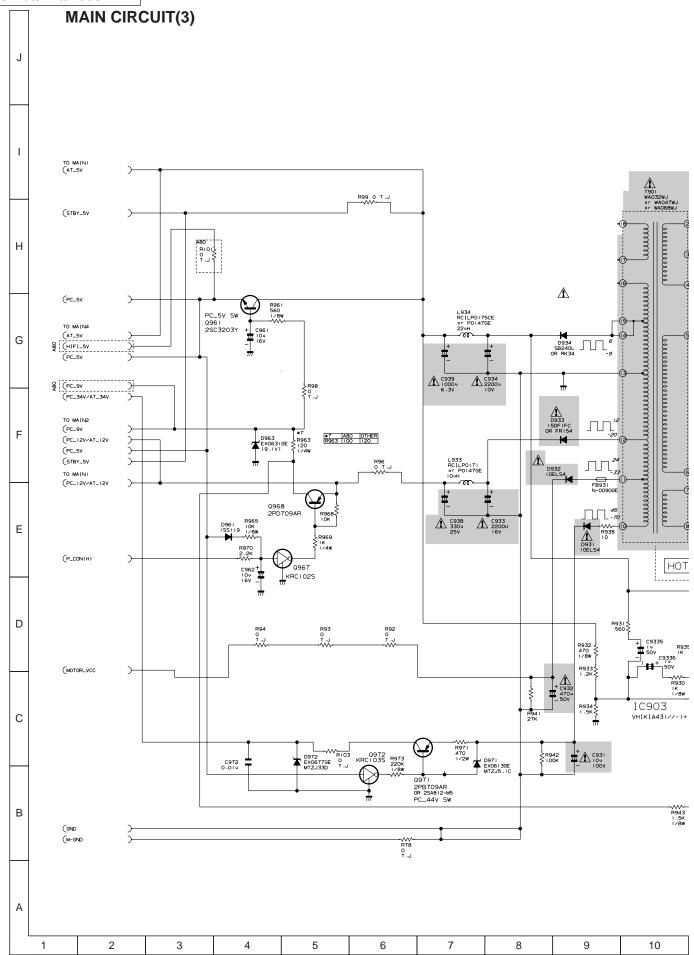


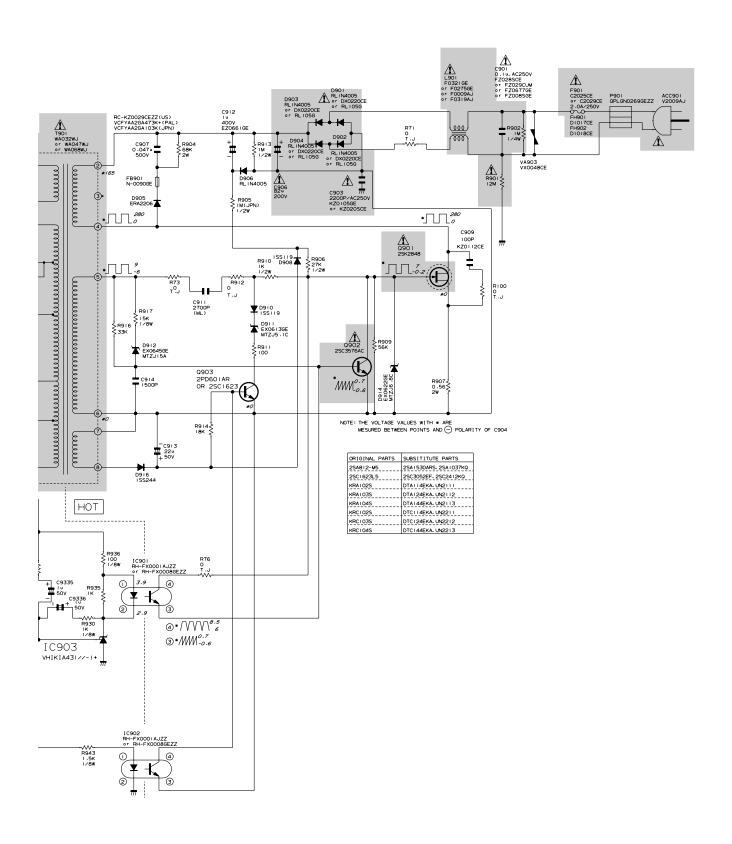


10	11	12	13	14	15	16	17	18	19

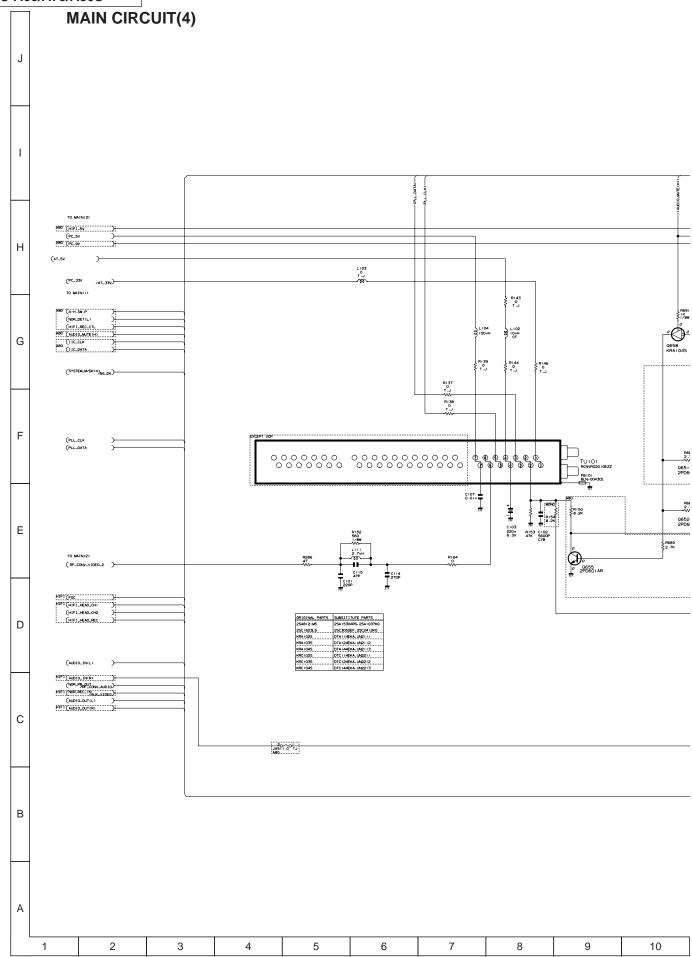


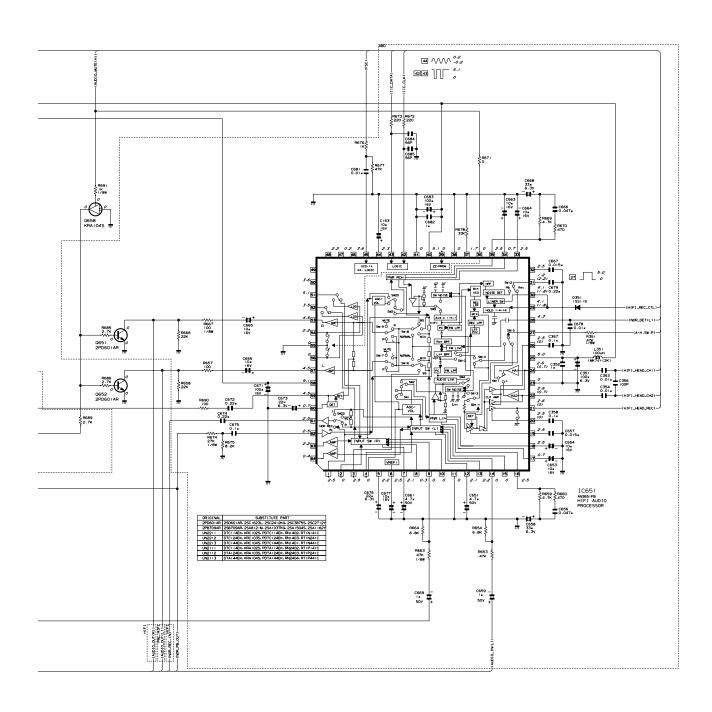




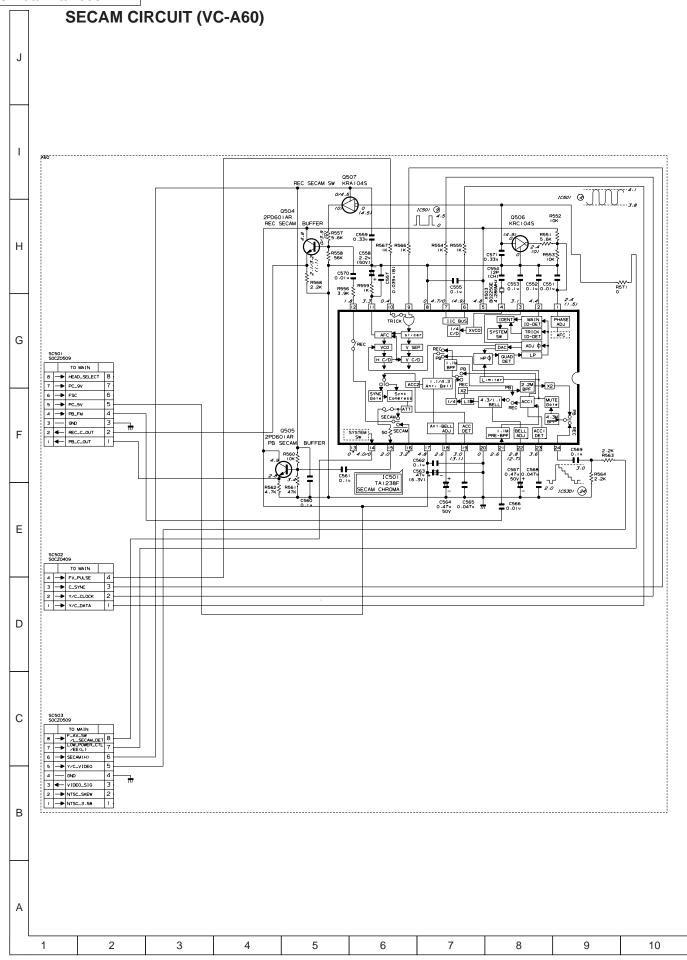


10	11	12	13	14	15	16	17	18	19

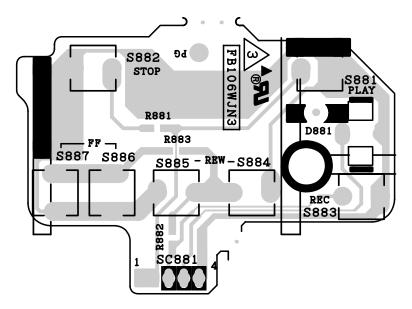




10	11	12	13	14	15	16	17	18	19

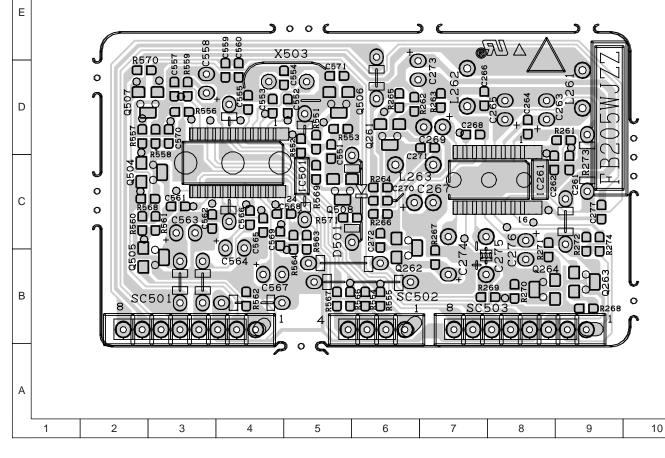


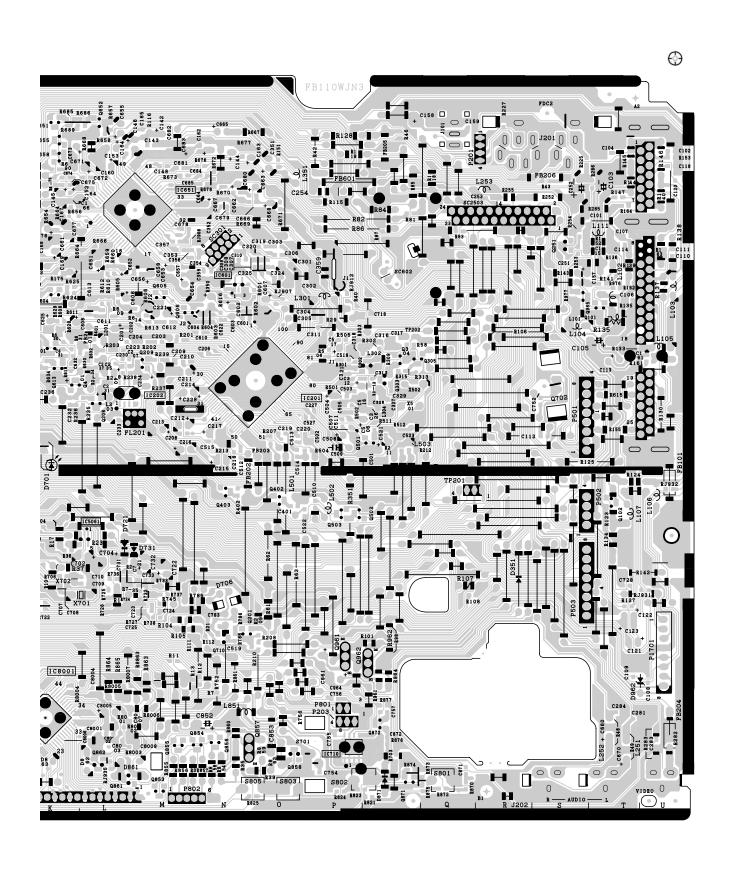
PWB FOIL PATTERN OPERATION PWB



SECAM PWB

G





10	11	12	13	14	15	16	17	18	19

10. REPLACEMENT PARTS LIST **PARTS REPLACEMENT**

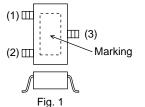
Parts marked with " $\underline{\Lambda}$ " are important for maintaining the safety of the set.Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- 1. MODEL NUMBER
- 2. REF. NO.
- 3. PART NO.
- 5. PRICE CODE
- 4. DESCRIPTION

HOW TO IDENTIFY CHIP TRANSISTORS AND DIODES BY ITS MARKING



- (1) Base/Input
- (2) Emitter/Ground
- (3) Collector/Output

Package	Marking	Parts No.
Fig. 1	FQ	VS2SA1037KQ-1
Fig. 1	BQ	VS2SC2412KQ-1

MARK ★: SPARE PARTS-DELIVERY SECTION

Ref. No. Part No. Description Code

PRINTED WIRING BOARD ASSEMBLIES

(NOT REPLACEMENT ITEM)

DUNTKB110TEV1	-	Main Unit (VC-A10/A10S)	_
DUNTKB110TEV5	-	Main Unit (VC-A50/A50S)	_
DUNTKB110TEV8	-	Main Unit (VC-A500)	_
DUNTKB110TEWA	-	Main Unit (VC-A50S(B))	_
DUNTKB110TEV9	-	Main Unit (VC-A60)	_
DUNTKB110TEVA	-	Main Unit (VC-A75S)	_
DUNTKB110TEVB	-	Main Unit (VC-A80S)	_
DUNTKB106TEV5	-	Operation Unit	_
DUNTKB205TEV1	-	SECAM Unit (VC-A60)	_

DUNTKB110TEv1/v5/v8/wa/v9/va/vB **MAIN Unit**

TUNER AND ASSEMBLY TU101 RCNVR0201GEZZ V Converter ΑZ **INTEGRATED CIRCUITS** VHiHA8317F/-1 BA IC201 V HA118317F IC202 VHiMM1111XF1E V MM1111XFBE (A60) ΑE IC601 VHiTC4S66F/-1 TC4S66F (A75S/A80S) AD IC651 VHiAN3651FB-1 AN3651FBP (A80S) ΑU IC701 RH-iXA043WJN2Q V MN101D08ESB1 AV IC703 VHiPST3225N1EY V I.C. AD IC706 VHiLB11885/-1Y V I.C. (A50/A50S) AM VHiS524CD2S1EY V I.C. ΑH IC710

R	ef. No.	Part No.	*	Description	Code
	IC903 IC5061	VHiKIA431//-1 VHiTC4S66F/-1	V V	KIA431 TC4S66F (A60)	AE AD
		TRAN	SIT	ORS	
	Q208	VS2PB709AR/-1	V		AB
	Q209	VS2PD601AR/-1	V		AB
	Q251	VS2PB709AR/-1	V		AB
	Q303	VS2PD601AR/-1	V		AB
	Q304	VS2PD601AR/-1	٧	(except A60/A80S) 2PD601AR (A60/A80S)	AB
	Q501	VS2PD601AR/-1	V	'	AB
	Q502	VSKRA102S//-1	-	KRA102S	AA
	Q503	VSKRC102S//-1	V	(A75S/A80S)	AA
	Q602	VS2SC3203Y/-1	V		АВ
	Q603	VS2PD601AR/-1	V	(except A10/A10S) 2PD601AR	AB
			-	(except A10/A10S)	
	Q604	VSKRA103S//-1	V	(except A10/A10S)	AA
	Q605	VS2PD601AR/-1	V		AB
	Q606	VS2PD601AR/-1	V	(except A10/A10S) 2PD601AR	AB
				(except A10/A10S)	
	Q613	VS2PD601AR/-1	V		AB
	Q651	VS2PD601AR/-1	V		AB
	Q652	VS2PD601AR/-1	V		AB
	Q655	VS2PD601AR/-1	V V	(/	AB AA
	Q658 Q710	VSKRA104S//-1 VS2PD601AR/-1	V		AA
	Q710 Q711	VS2PD601AR/-1	V		AB
	Q861	VSKRC103S//-1		KRC103S	AA
	Q862	VSKRC103S//-1	V		AA
	Q863	VSKRC103S//-1	V		AA
	Q864	VSKRC103S//-1	V		AA
				(except A10/A10S)	
<u>^</u>	Q901	VS2SK2848//-1	٧		AH
<u> </u>	Q902	VS2SC2001LK-1	V		AA
	Q903 Q961	VS2PD601AR/-1 VS2SC3203Y/-1	V	2PD601AR 2SC3203Y	AB AB
	Q967	VSKRC102S//-1		KRC102S	AA
	Q968	VS2PB709AR/-1		2PB709AR	AB
	Q971	VS2PB709AR/-1		2PB709AR	AB
	Q972	VSKRC103S//-1	٧	KRC103S	AA
		DIO	DE	S	
	D351	VHD1SS119//-1	٧	1SS119 (A80S)	AB
	D701	RH-PX0270GEZZ	V	PhotoDiode	AC
	D702	VHD1SS119//-1	V	1SS119	AB
	D706	RH-PX0252GEZZ	V	GP1S563	AF
	D707 D861	RH-PX0252GEZZ RH-PX0448AJZZ+	V V	GP1S563 PhotoDiode	AF AC
	D862	RH-PXA020WJZZ+			AC
	D863	RH-PXA020WJZZ+		PhotoDiode	AC
	D864	RH-PX0448AJZZ+	٧	PhotoDiode	AC
^		\#\BB\ 444.665 4		(except A10/A10S)	
<u>^</u>	D901	VHDRL1N4005-1	V	RL1N4005	AC
<u> </u>	D902 D903	VHDRL1N4005-1 VHDRL1N4005-1	V V		AC AC
<u>⟨!\</u>	D903	VHDRL1N4005-1	V		AC
<u> </u>	D905	VHDERA2206/-1	V		AC
	D906	VHDRL1N4005-1	V	RL1N4005	AC
	D908	VHD1SS119//-1	٧	1SS119	AB
	D910	VHD1SS119//-1	V	1SS119	AB
	D911	RH-EX0613GEZZ	٧		AA
	D912	RH-EX0645GEZZ	V		AB
	D914	RH-EX0622GEZZ	V		AA
Α	D916	VHD1SS244//-1	V	1SS244	AB
<u>^!\</u>	D931	VHD10ELS4//-1	V	10ELS4	AD AD
<u>⟨!\</u>	D932 D933	VHD10ELS4//-1 VHD15DF1FC/1E	V	10ELS4 15DF1FC	AD AD
<i>د</i> ے	D933	VHDRK34///-1	V	RK34	AE
	D961	VHD1SS119//-1	V	1SS119	AB

Ref	f. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description (Code
	D963	RH-EX0631GEZZ	V		AA	C227	VCKYCY1CF104Z			AA
	D971	RH-EX0613GEZZ		Zener Diode	AA	C230	VCKYCY1CF104Z	V		AA
	D972	RH-EX0677GEZZ		Zener Diode	AB	0004	\/CEAONO \\/47CN4	١,,	(A60)	۸۵
	IC901 IC902	RH-FX0001AJZZ RH-FX0001AJZZ		TCET1103G TCET1103G	AE AE	C231	VCEA9M0JW476M	V	47 6.3V Electrolytic (A60)	AB
	Q701	RH-PX0233GEZZ		PT493FL2	AD	C232	VCCCCY1HH390J	V		AA
	Q702	RH-PX0233GEZZ		PT493FL2	AD	0202		•	(A60)	, , ,
		PACKAGE	ם:	CIRCUITS		C233	VCCCCY1HH121J	V	120p 50V Ceramic (A60)	AA
,	VA903	RH-VX0048CEZZ			AE	C234	VCEA9M1CW106M	١V		AB
	X501	RCRSB0204GEZZ			AG				(A60)	
	X502	RCRSB0232GEZZ	V	Crystal	AG	C235	VCEA9M1CW106N	١V		AB
,	X701	RCRSB0205GEZZ		,	AM	C237	VCKYCY1CF104Z	V		AA
		COILS AND TI				0050	\/CEAGAG \\/227\A	١,,	(A60)	40
	FL201	RCiLF0010AJZZ	V	()	AF	C252 C253	VCEA0A0JW337M VCKYCY1CF104Z			AC AA
	L102 L104	VP-CF100K0000 VP-MK101K0000	V		AB AB	C301	VCEA9M0JW476M			AB
	L104 L111	VP-XF2R7K0000	V		AB	C302	VCKYCY1CF104Z		,	AA
	L201	VP-XF221K0000	V	• '	AB	C303	VCKYCY1HB102K	V	1000p 50V Ceramic	AA
	L203	VP-XF150K0000	V		AB				(except A75S/A80S)	
	L301	VP-MK101K0000	V		AB	C303	VCKYCY1EB103K	V	0.01 25V Ceramic	AA
I	L302	VP-XF180K0000	V	Peaking 18µH	AB	_			(A75S/A80S)	
				(A60/A80S)		C304	VCKYCY1HB562K	V	•	AA
l	L303	VP-XF151K0000	V	Peaking 150µH (A60/A80S)	AB	C304	VCKYCY1EB103K	V	(except A75S/A80S) 0.01 25V Ceramic	AA
ı	L304	VP-XF180K0000	V	Peaking 18µH	AB	0001	VOICEOTEDIOOR	٠	(A75S/A80S)	, , ,
	L004	VI 70 10010000	٧	(except A60/A80S)	710	C305	VCKYCY1HB562K	V	5600p 50V Ceramic	AA
I	L351	VP-MK101K0000	V	Peaking 100µH (A80S)					(except A75S/A80S)	
	L501	VP-XF560K0000	V	3 1	AB	C305	VCKYCY1EB103K	V		AA
l	L502	VP-XF101K0000	V	Peaking 100µH (A75S/A80S)	AB	C306	VCKYCY1HB102K	\/	(A75S/A80S) 1000p 50V Ceramic	AA
ı	L503	VP-XF120K0000	V	Peaking 12µH	AB	0000	VOICEOTTE	٠	(except A75S/A80S)	, , ,
	L602	VP-DF221K0000	V	• .	AB	C306	VCKYCY1EB103K	V		AA
				(except A10/A10S)					(A75S/A80S)	
	L901	RCiLF0320AJZZ	V		AE	C307	VCKYCY1EB103K	V	0.01 25V Ceramic (A75S/A80S)	AA
	L933 L934	RCiLP0171CEZZ RCiLP0175CEZZ	V		AD AD	C308	VCKYCY1FB103K	V	0.01 25V Ceramic	AA
	L934 L5061	VP-XF120K0000	V	Peaking 12µH (A60)	AB	0000	VOICEOTEDIOOR	٠	(A75S/A80S)	, , ,
	T601	RTRNH0098GEZZ		0 . , ,	AE	C309	VCKYCY1EB103K	V	0.01 25V Ceramic	AA
				(except A10/A10S)		0040	\/O!/\/O\/4ED400!/	١,,	(A75S/A80S)	
<u> </u>	T901	RTRNWA032WJZZ	. V	Transformer	AK	C310	VCKYCY1EB103K	V	0.01 25V Ceramic (A75S/A80S)	AA
		CAPA	СІТ	ORS		C311	VCKYCY1HF103Z	V	0.01 50V Ceramic	AA
(C101			220p 50V Ceramic	AA	C313	VCKYCY1HF103Z	V	0.01 50V Ceramic	AA
(C102			5600p 50V Ceramic	AA	C315	VCKYCY1HB331K	V	330p 50V Ceramic	AA
	_			(A80S)		0040	V00000V41 II 1400 I	٠,,	(A60/A80S)	
	C103	VCEA9A0JW227M				C316	VCCCCY1HH180J	V	18p 50V Ceramic (A60/A80S)	AA
	C107 C114	VCKYCY1HF103Z		0.01 50V Ceramic 270p 50V Ceramic	AA AA	C317	VCCCCY1HH120J	V	,	AA
	C115	VCCSD41HL470J		•	AA	••••		•	(A60/A80S)	, , ,
(C163	VCEA9M1CW106M	1 V		c AB	C318	VCCCCY1HH120J	V	•	AA
,	0004	\/OE		(A80S)		C319	VCCCCY1HH270J	١/	(A60/A80S) 27p 50V Ceramic	AA
	C201 C202	VCEA9M0JW476M VCKYCY1CF104Z			c AB AA	0319	VCCCC1111112703	V	(except A60/A80S)	AA
	C202			150p 50V Ceramic	AA	C319	VCCCCY1HH100D	V		AA
	C204	VCKYCY1CF104Z		•	AA				(A60/A80S)	
(C205	VCCCCY1HH220J	V	22p 50V Ceramic	AA	C320	VCCCCY1HH100D	V		AA
(C206	VCKYCY1CF104Z	V		AA	C224	VCKVCV411E4027	١,,	(A75S/A80S)	Λ Λ
	C207	VCKVCV1CE1047	\/	(except A60) 0.1 16V Ceramic	AA	C324	VCKYCYTHF103Z	V	0.01 50V Ceramic (except A75S/A80S)	AA
	C207 C208	VCKYCY1CF104Z VCKYCY1CF104Z			AA	C325	VCKYCY1HF103Z	V	0.01 50V Ceramic	AA
	C209	VCKYCY1CF104Z			AA				(except A75S/A80S)	
	C210	VCKYCY1CF104Z			AA	C326	VCCCCY1HH120J	V		AA
	C211	VCEA9M1HW335M				0007	\(\(\text{0.0.00}\)	. ,	(except A60/A80S)	
	C212	VCEA9M1CW106N				C327	VCCCCY1HH120J	V	12p 50V Ceramic	AA
	C213 C215	VCEA9M1HW225M VCEA9M1HW105M				C328	VCCCCY1HH180J	V	(except A60/A80S) 18p 50V Ceramic	AA
,	0213	VCLASIVITIVV 103IV	ıv	(except A10/A10S)	C AB	0020	100001111111000	٧	(except A60/A80S)	701
(C217	VCEA9M0JW476M	V		c AB	C329	VRS-CY1JF000J	٧	0 1/16W Metal Oxide	e AA
(C218	VCKYCY1CF104Z	V	0.1 16V Ceramic	AA	007:	\/OE \ 01.10 !!!!		(except A60/A80S)	
	C219	VCKYCY1CF104Z			AA	C351	VCEA9M0JW107M	V	,	AB
	C220 C221	VCKYCY1CF104Z VCEA9M1CW106M			AA c AB	C352	VCKYCY1AF105Z	V	(A80S) 1 10V Ceramic	AC
	C221	VCKYCY1CF104Z			AA AA	3002	, 5 51 // 11 1002	•	(A80S)	
		·								

C354 VCKYCYHEFIO3Z V 0.01 50V Ceramic AA C664 VCEA9MICW106M V 10 16V Electrolytic AA C664 VCEA9MICW106M V 10 16V Electrolytic AA C664 VCEA9MICW106M V 10 16V Electrolytic AA C665 VCEA9MILWW106M V 10 16V Electrolytic AA C665 VCEA9MILWW107M V 10 16V Electrolytic AB C667 VCEXPVCYTEPI32X V 0.11 16V Electrolytic AB C670 VCEXPVCYTEPI33X V 0.01 50V Electrolytic AB C671 VCEA9MILWW105M V 0.01 50V Electrolytic AB C672 VCEA9MILWW105M V 0.01 50V Electrolytic AB VCKYCYTEPI32X V 0.01 50V El	Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
C354	C353	VCKYCY1HF103Z	V		AA	C661	VCEA9M1HW475M	V	,	: AB
C356	C354	VCKYCY1HF103Z	V	0.01 50V Ceramic	AA	C663	VCEA9M1CW106M	V	10 16V Electrolytic	AB
C357	C356	VCCCCY1HH101J	V	100p 50V Ceramic	AA	C664	VCEA9M1CW106M	V	10 16V Electrolytic	c AB
C569	C357	VCKYCY1CB104K	V	0.1 16V Ceramic	AB	C665	VCEA9M1CW106M	V	10 16V Electrolytic	: AB
CS01 VCEA9MUM/107M V 100 6.3 V Electrolytic AB CS02 VCKYCY1E9153K V 0.11 65/ Ceramic AA CS03 VCKYCY1E9163K V 0.11 65/ Ceramic AA CS03 VCKYCY1E9163K V 0.11 65/ Ceramic AA CS03 VCKYCY1E9163K V 0.12 25/ Ceramic AA CS05 VCEA9MIHW195M V 2.2 50/ Ceramic AB CS05 VCEA9MIHW195M V 0.47 50/ V Electrolytic AB CS05 VCEA9MIHW195M V 0.47 50/ V Electrolytic AB CS05 VCEA9MIHW195M V 0.47 50/ V Electrolytic AB CS09 VCKYCY1E9103K V 0.01 65/ Ceramic AA CS01 VCKYCY1HE703Z V 0.01 50/ Ceramic AA CS01 VCKYCY1HE331K V 0.305 S0/ Ceramic AA CS01 VCEA9MIHW193SM V 3.3 S0/ Electrolytic AB CS01 VCKYCY1HE303Z V 0.033 S0/ Ceramic AA CS01 VCEA9MIHW193SM V 0.305 S0/ Ceramic AA CS01 VCEA9MIHW193SM V 0.305 VC	C358	VCKYCY1CB104K	V	,	AB	C666	VCKYCY1HF473Z	٧	0.047 50V Ceramic	AA
C503	C501	VCEA9M0JW107M	I V	'	ic AB	C667	VCKYCY1EB153K	٧	0.015 25V Ceramic	AA
C505		VCKYCY1CF104Z	V	0.1 16V Ceramic	AA	C668	VCEA9M0JW336M	٧	33 6.3V Electrolytic	c AB
CS07				0.022 25V Ceramic	AA	C669	VCEA9M1HW105M	V	1 50V Electrolytic	c AB
CS21						C671	VCEA9M1CW107M	V	100 16V Electrolytic	c AB
C512						C672	VCKYCY1CF224Z	٧	0.22 16V Ceramic	AA
CS12	C510	VCCCCY1HH270J	V		AA	C673	VCEA9M0JW226M	٧	,	: AB
C515				0.01 50V Ceramic		C674	VCKYCY1CF224Z	٧	'	AA
C516	C514	VCKYCY1HF103Z	V	0.01 50V Ceramic	AA	C675	VCKYCY1CF104Z	V	\ /	AA
C518		VCEA9M1HW105N	ΛV	1 50V Electrolyti		C676	VCEA9M0JW226M	V	` '	c AB
C652	C518	VCKYCY1HF333Z	V	0.033 50V Ceramic	AA	C677	VCEA9M1CW106M	V	,	c AB
C603	C522	VCCCCY1HH120J	V	12p 50V Ceramic	AA	C678	VCKYCY1HF103Z	V	'	AA
C805	C603	VCEA9M1CW106N	ΛV	10 16V Electrolyti	ic AB	C679	VCKYCY1CF224Z	V	,	AA
C807	C605	VCEA9M1CW106N	ΛV	10 16V Electrolyti	ic AB				(A80S)	AA
C611	C607	VCEA9M1HW475N	ΛV	4.7 50V Electrolyti	ic AB				(A80S)	AC
C617 VCEA9M1CW476M V 47 16V Electrolytic (except A10/A10S) C684 VCCCCY1HH560J V 56p 50V Ceramic (A80S)				0.1 16V Ceramic					,	c AB
C618	C617	VCEA9M1CW476N	ΛV	47 16V Electrolyti	ic AB				(A80S)	AA
C619	C618	VCKYCY1EB103K	V	0.01 25V Ceramic	AA				(A80S)	AA
C620	C619	VCKYCY1EB103K	V	0.01 25V Ceramic	AA				(A80S)	
C621	C620	VCEA9M1CW106N	ΙV	10 16V Electrolyti	ic AB	C703	VCKYCY1CF104Z	V	0.1 16V Ceramic	AA
C622	C621	VCQPYA2AA562J	V	5600p 100V Mylar	AC	C705	VCKYCY1CF104Z	V	0.1 16V Ceramic	AA AA
C622	C622	VCKYCY1HB222K	V	2200p 50V Ceramic	AA	C707	VCCCCY1HH7R0D	V	7.0p 50V Ceramic	AA AA
C630	C622	VCKYCY1HB102K	V	1000p 50V Ceramic	AA	C714	VCCCCY1HH330J	V	33p 50V Ceramic	AA
C631 VCCCCY1HH101J V 100p 50V Ceramic AA C718 VCKYCY1HF103Z V 0.01 50V Ceramic AA C632 VCCCCY1HH221J V 220p 50V Ceramic AA C721 VCKYCY1HB102K V 0.02 16V Ceramic AA C634 VCEA9M1HW475M V 4.7 50V Electrolytic AB C728 VCKYCY1HB102K V 0.01 50V Ceramic AA C636 VCKYCY1HB222K V 2200p 50V Ceramic AA C728 VCKYCY1HB103Z V 0.01 50V Ceramic AA C651 VCEA9M1HW475M V 4.7 50V Electrolytic AB C730 VCKYCY1HB103Z V 0.01 50V Ceramic AA C653 VCEA9M1CW106M V 10 16V Electrolytic AB C734 VCKYCY1HB103Z V 0.01 50V Ceramic A	C630	VCCCCV1HH101 I	\/		ΔΔ					AA
C632 VCCCCY1HH221J V 220p 50V Ceramic AA C721 VCKYCY1CF224Z V 0.22 16V Ceramic AA C634 VCEA9M1HW475M V 4.7 50V Electrolytic AB C726 VCKYCY1HB103Z V V 0.01 50V Ceramic AA C651 VCEA9M1HW475M V 4.7 50V Electrolytic AB C730 VCKYCY1HB103Z V 0.01 50V Ceramic AA C651 VCEA9M1CW106M V 4.7 50V Electrolytic AB C730 VCKYCY1HF103Z V 0.01 50V Ceramic AA C653 VCEA9M1CW106M V 10 16V Electrolytic AB C734 VCKYCY1HB103Z V 0.01 50V Ceramic AA C654 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCCCCY1HH680J V 68p 50V Ceramic AA C655 VCEA9M1CW106M V 10 16V Electrolytic <										AA
C634 VCEA9M1HW475M V 4.7 50V Electrolytic AB C726 VCKYCY1HB102K V 1000p 50V Ceramic AB C636 VCKYCY1HB222K V 2200p 50V Ceramic AA C728 VCKYCY1HF103Z V V 0.01 50V Ceramic AB C651 VCEA9M1HW475M V 4.7 50V Electrolytic AB C730 VCKYCY1HF103Z V V 200p 50V Ceramic AB C651 VCEA9M1CW106M V 10 16V Electrolytic AB C734 VCKYCY1HF103Z V V 0.01 50V Ceramic AB C653 VCEA9M1CW106M V 10 16V Electrolytic AB C734 VCKYCY1HB103Z V V 0.01 50V Ceramic AB C654 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCCCCY1HH680J V V 220p 50V Ceramic AB C655 VCEA9M1CW106M V 10 16V Electrolytic AB </td <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AA</td>				•						AA
C636 VCKYCY1HB222K V 2200p 50V Ceramic AA C728 VCKYCY1HF103Z V 0.01 50V Ceramic A. C729 VCKYCY1HB222K V 2200p 50V Ceramic A. C729 VCKYCY1HB222K V 2200p 50V Ceramic A. C729 VCKYCY1HF103Z V 0.01 50V Ceramic A. C730 VCKYCY1HF103Z V 0.01 50V Ceramic A. C731 VCKYCY1HF103Z V 0.01 50V Ceramic A. C731 VCKYCY1HF103Z V 0.01 50V Ceramic A. C731 VCKYCY1HB102K V 1000p 50V Ceramic A. C735 VCKYCY1HB103K V 0.01 50V Ceramic A. C735 VCKYCY1HB103X V 0.01 50V Ceramic A. C735 VCKYCY1HB221K V 220p 50V Ceramic A. C736 VCCCCY1HH680J V 68p 50V Ceramic A. C738 VCKYCY1HB221K V 220p 50V Ceramic A. C738 VCKYCY1HB221K V 220p 50V Ceramic A. C738 VCKYCY1HB221K V 220p 50V Ceramic A. C738 VCKYCY1HB222K V 2200p 50V Ceramic A. C738 VCKYCY1HB222K V 2200p 50V Ceramic A. C744 VCKYCY1HB222K V 2200p 50V Ceramic A. C745 VCKYCY1HB222K V 2200p 50V Ceramic A. C745 VCKYCY1HB222K V 2200p 50V Ceramic A. C745 VCKYCY1HB488X V 6800p 50V Ceramic A. C745 VCKYCY1HB488X V 6800p 50V Ceramic A. C745 VCKYCY1HB488X V 6800p 50V Ceramic A. C745 VCKYCY1HF103Z V 0.01 50V Ceramic A. C755 VCEA2A1VW107M V 100 35V Electrolytic A. C751 VCKYCY1HF103Z V 0.01 50V Ceramic A. C751 VCKYCY1HF103Z V 0										AA
C651 VCEA9M1HW475M V 4.7 50V Electrolytic AB C730 VCKYCY1HB103Z V 0.01 50V Ceramic AL (A80S) C653 VCEA9M1CW106M V 10 16V Electrolytic AB C734 VCKYCY1HF103Z V 0.01 50V Ceramic AL (A80S) C654 VCEA9M1CW106M V 10 16V Electrolytic AB C734 VCKYCY1HB102K V 1000p 50V Ceramic AL (C654 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCCCCY1HH680J V 68p 50V Ceramic AL (C738 VCKYCY1HB221K V 220p 50V Ceramic AL (C744 VCKYCY1HB222K V 220p 50V Ceramic AL (C744 VCKYCY1HB222K V 220p 50V Ceramic AL (C745 VCKYCY1HB22CK V 220p 50V Ceramic AL (C755 VCKYCY1HB22CK V 220p 50V Ceramic AL (C755 VCKYCY1HB103Z V 0.01 50V Ceramic AL (C750 VCEA2A1VW107M V 100 35V Electrolytic AL (C75										AA
C651 VCEA9M1HW475M V 4.7 50V Electrolytic AB C730 VCKYCY1HF103Z V 0.01 50V Ceramic A. (A80S) C653 VCEA9M1CW106M V 10 16V Electrolytic AB C734 VCKYCY1HB102K V 1000p 50V Ceramic A. (C654 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCCCCY1HH680J V 68p 50V Ceramic A. (C654 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCKYCY1HB221K V 220p 50V Ceramic A. (C655 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCKYCY1HB221K V 220p 50V Ceramic A. (C656 VCKYCY1HF473Z V 0.047 50V Ceramic AA C744 VCKYCY1HB222K V 220p 50V Ceramic A. (C744 VCKYCY1HB222K V 220p 50V Ceramic A. (C745 VCKYCY1HB222K V 220p 50V Ceramic A. (C745 VCKYCY1HB222K V 6800p 50V Ceramic A. (C745 VCKYCY1HB682K V 6800p 50V Ceramic A. (C755/A80S) C657 VCKYCY1EB153K V 0.015 25V Ceramic AA C745 VCKYD41HB682K V 6800p 50V Ceramic A. (C755/A80S) C658 VCEA9M0JW336M V 33 6.3V Electrolytic AB C750 VCEA2A1VW107M V 100 35V Electrolytic AB C751 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C751 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C752 VCKYCY1HF103Z V 0.0	0000	VOICEOFIEDZZZIN	٧		~\^					AA
C653 VCEA9M1CW106M V 10 16V Electrolytic (A80S) AB C734 VCKYCY1HF103Z V 1000p 50V Ceramic (A80S) AC C735 VCKYCY1HF103Z V 1000p 50V Ceramic (A80S) AC C736 VCCCCY1HH680J V 100p 50V Ceramic (A80S) AC C738 VCKYCY1HB221K V 100p 50V Ceramic (A80S) AC C744 VCKYCY1HB221K V 100p 50V Ceramic (A80S) AC C744 VCKYCY1HB222K V 100p 50V Ceramic (A80S) AC C744 VCKYCY1HB222K V 100p 50V Ceramic (A80S) AC C745 VCKYCY1HB682K V 100p 50V Ceramic (A75S/A80S) AC C745 VCKYCY1HF103Z V 100p 35V Electrolytic AR C751 VCKYCY1HF103Z V 100p 50V Ceramic AC C751 VCKYCY1HF103Z V 100p 50V Ceramic AD C751 VCKYCY1HF103Z V 100p	C651	\/CEΔΩΜ1Η\Λ/475Ν	/ \/		ic AR					AA
C653 VCEA9M1CW106M V 10 16V Electrolytic AB C734 VCKYCY1HB102K V 1000p 50V Ceramic AL (A80S) C654 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCCCCY1HH680J V 68p 50V Ceramic AL (A80S) C655 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCKYCY1HB221K V 220p 50V Ceramic AL (C738 VCKYCY1HB221K V 220p 50V Ceramic AL (C744 VCKYCY1EB103K V 0.01 25V Ceramic AL (C745 VCKYCY1HB222K V 2200p 50V Ceramic AL (C745 VCKYCY1HB222K V 2200p 50V Ceramic AL (C755/A80S) C657 VCKYCY1EB153K V 0.015 25V Ceramic AA C745 VCKYCY1HB682K V 6800p 50V Ceramic AL (C755/A80S) C658 VCEA9M0JW336M V 33 6.3V Electrolytic AB C750 VCEA2A1VW107M V 100 35V Electrolytic AB C751 VCKYCY1HF103Z V 0.01 50V Ceramic AL (C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic AL (C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic AL (C750 VCEA9M1HW105M V 1 50V Ceramic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic AB C750 VCEA9M1HW105M V 1 50V Ceramic AB C750	0001	VOLASIVITIVV473IV	1 V		io AD					AA
(A80S) C735 VCKYCY1HF103Z V 0.01 50V Ceramic A. C736 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCCCCY1HH680J V 68p 50V Ceramic A. C738 VCKYCY1HB221K V 220p 50V Ceramic A. C738 VCKYCY1HB221K V 220p 50V Ceramic A. C738 VCKYCY1HB221K V 220p 50V Ceramic A. C744 VCKYCY1EB103K V 0.01 25V Ceramic A. C744 VCKYCY1EB103K V 0.01 25V Ceramic A. C745 VCKYCY1HB222K V 220p 50V Ceramic A. C745 VCKYCY1HB222K V 260p 50V Ceramic A. C745 VCKYCY1HB222K V 6800p 50V Ceramic A. C745 VCKYCY1HB682K V 6800p 50V Ceramic A. C745 VCKYCY1HB682K V 6800p 50V Ceramic A. C745 VCKYCY1HB682K V 6800p 50V Ceramic A. C745 VCKYCY1HF103Z V 0.01 35V Electrolytic A. C751 VCKYCY1HF103Z V 0.01 50V Ceramic A. C751 VCKYCY1HF103Z V 0.01 50V Ceramic A. C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A. C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A. C750 VCEA9M1HW105M V 1 50V Ceramic A. C750 VCEA9M1HW	CEE2	\/CEAQN44C\\\/406N	/ \/		io					AA
C654 VCEA9M1CW106M V 10 16V Electrolytic AB C736 VCCCCY1HH680J V 68p 50V Ceramic A. (A80S) C655 VCEA9M1CW106M V 10 16V Electrolytic AB C744 VCKYCY1HB221K V 220p 50V Ceramic A. (C744 VCKYCY1HB221K V 220p 50V Ceramic A. (C745 VCKYCY1HF473Z V 0.047 50V Ceramic AB (A80S) C656 VCKYCY1HF473Z V 0.047 50V Ceramic AA C744 VCKYCY1HB222K V 2200p 50V Ceramic (Except A75S/A80S) C657 VCKYCY1HF473Z V 0.047 50V Ceramic AA C744 VCKYCY1HB222K V 2200p 50V Ceramic (Except A75S/A80S) C657 VCKYCY1HF473Z V 0.047 50V Ceramic AA C745 VCKYCY1HB222K V 26800p 50V Ceramic AB (A80S) C658 VCEA9M0JW336M V 33 6.3V Electrolytic AB C750 VCEA2A1VW107M V 100 35V Electrolytic AB C751 VCKYCY1HF103Z V 0.01 50V Ceramic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic AB C750 VCEA2A1VW107M V 100 35V Electrolytic AB C751 VCKYCY1HF103Z V 0.01 50V Ceramic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A	C003	A OF WAINLICAN LOOK	ı V		ic AD				•	AA
C655 VCEA9M1CW106M V 10 16V Electrolytic AB C744 VCKYCY1EB103K V 0.01 25V Ceramic (A80S) C656 VCKYCY1HF473Z V 0.047 50V Ceramic AA C744 VCKYCY1HB222K V 2200p 50V Ceramic (A80S) C657 VCKYCY1EB153K V 0.015 25V Ceramic AA C745 VCKYD41HB682K V 6800p 50V Ceramic (A80S) C658 VCEA9M0JW336M V 33 6.3V Electrolytic AB C750 VCEA2A1VW107M V 100 35V Electrolytic AG (A80S) C659 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic AG (A80S)	C654	VCEA9M1CW106N	ΙV	10 16V Electrolyti	ic AB	C736	VCCCCY1HH680J	V	68p 50V Ceramic	AA
C656 VCKYCY1HF473Z V 0.047 50V Ceramic AA C744 VCKYCY1HB222K V 2200p 50V Ceramic A. (A80S) C657 VCKYCY1EB153K V 0.015 25V Ceramic AA C745 VCKYD41HB682K V 6800p 50V Ceramic (A80S) C658 VCEA9M0JW336M V 33 6.3V Electrolytic AB C750 VCEA2A1VW107M V 100 35V Electrolytic AB C751 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C659 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A. (C750 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic AB C752 VCKYCY1HF103Z V 0.01 50V	C655	VCEA9M1CW106N	1 V	10 16V Electrolyti	ic AB				0.01 25V Ceramic	AA AA
C657 VCKYCY1EB153K V 0.015 25V Ceramic AA C745 VCKYD41HB682K V 6800p 50V Ceramic AI (A80S) C658 VCEA9M0JW336M V 33 6.3V Electrolytic AB C750 VCEA2A1VW107M V 100 35V Electrolytic AI (A80S) C659 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic AI C752 VCKYCY1HF103Z V 0.01 50V Ceramic AI	C656	VCKYCY1HF473Z	V	0.047 50V Ceramic	AA	C744	VCKYCY1HB222K	٧	2200p 50V Ceramic	AA
C658 VCEA9M0JW336M V 33 6.3V Electrolytic AB C750 VCEA2A1VW107M V 100 35V Electrolytic AI (A80S) C751 VCKYCY1HF103Z V 0.01 50V Ceramic A. C659 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A.	C657	VCKYCY1EB153K	V	0.015 25V Ceramic	AA	C745	VCKYD41HB682K	٧	6800p 50V Ceramic	AB
C659 VCEA9M1HW105M V 1 50V Electrolytic AB C752 VCKYCY1HF103Z V 0.01 50V Ceramic A	C658	VCEA9M0JW336M	I V	33 6.3V Electrolyti	ic AB				100 35V Electrolytic	
Occo Volition V 1 Oct Elociolytic AB		\/O=+=+++++++++		,						AA
	C659	VCEA9M1HW105N	/I V	•	ic AB	U/52	VUNTUTTHE103Z	V	U.UI DUV CERAMIC	AA

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	_	Descr	iption	Code
C754	VCKYCY1HF103Z		·	AA	 C972	VCKYCY1HF103Z		0.01		Ceramic	AA
C760	VCEA9M1CW336N		(except A10/A10S)		C5062	VCCCCY1HH101J			50V	Ceramic	AA
C700	VCLASIVI I CVV330IV	/I V	(A50/A50S)	, AD	C7716	VCKYCY0JB105K	V	1		Ceramic	AC
C761	VCCCCY1HH101J	V	100p 50V Ceramic	AA	C7741	VCKYCY1CF104Z	V	0.1		Ceramic	AA
			(A50/A50S)		C7742	VCEA9M0JW226M	V	22	6.3V	Electrolytic	AB
C762	VCKYCY1EB103K	V	0.01 25V Ceramic	AA	C7743	VCKYCY1CF104Z	V	0.1	16V	Ceramic	AA
C763	VCKYCY1EB103K	V	(A50/A50S) 0.01 25V Ceramic	AA	C9335 C9336	VCEA9M1HW105N VCEA9M1HW105N			50V 50V	Electrolytic Electrolytic	
C764	VCKYCY1EB103K		(A50/A50S)	AA		RESI				,	
			(A50/A50S)		RJ901	VRS-CY1JF000J		0		Metal Oxid	e AA
C765	VCKYCY1HF103Z	V	0.01 50V Ceramic (A50/A50S)	AA	RJ904	VRS-CY1JF000J	V	`	A50S) 1/16W	Metal Oxid	e AA
C766	VCKYCY1CF104Z	V	0.1 16V Ceramic (A50/A50S)	AA	RJ907	VRS-CY1JF000J	V	0 (A759	1/16W S/A80S	Metal Oxid	e AA
C767	VCKYCY1HB222K	٧	2200p 50V Ceramic	AA	RJ908	VRS-CY1JF000J	٧	Ò	1/16W	Metal Oxid	e AA
C768	VCKYCY1HB222K	٧		AA	RJ912	VRS-CY1JF000J	V		1/16W	Metal Oxid	e AA
C769	VCKYCY1CF104Z	V	(A50/A50S) 0.1 16V Ceramic	AA	RJ932	VRS-CY1JF000J	V	(A809 0		Metal Oxid	e AA
			(A50/A50S)		RJ933	VRS-CY1JF000J	V	0	1/16W	Metal Oxid	
C770	VCK1C11EB223K	V	0.022 25V Ceramic (A50/A50S)	AA	RJ934	VRS-CY1JF000J	٧	(A50/	A50S) 1/16W	Metal Oxid	e AA
C771	VCCCCY1EH681J	V	680p 25V Ceramic (A50/A50S)	AB	RJ935	VRS-CY1JF000J	V	0	1/16W pt A80	Metal Oxid	e AA
C772	VCKYCY1CB104K	V	0.1 16V Ceramic	AB	R2	VRS-CY1JF000J	V	0		Metal Oxid	e AA
_			(A50/A50S)		R7	VRS-CY1JF000J		0		Metal Oxid	
C773	VCCCCY1HH471J	V	470p 50V Ceramic	AA	R9	VRS-CY1JF000J		0		Metal Oxid	
C774	VCEA9M1CW336N	ΛV	(A50/A50S) 33 16V Electrolytic	c AB	R11	VRS-CY1JF000J	V	0 (exce		′ Metal Oxid /A10S)	е АА
			(except A50A/SA)		R16	VRS-CY1JF000J		Ò	1/16W	' Metal [´] Oxid	
C775	VCEA2A1VW107M	1 V	100 35V Electrolytic (A50/A50S)	c AC	R104 R105	VRD-RA2BE102J VRD-RA2BE102J	V	1k 1k		Carbon Carbon	AA AA
C776	VCKYCY1HB221K	V	,	AA	R111	VRS-CY1JF153J	V			Metal Oxid	
			(A50/A50S)		R112	VRS-CY1JF153J	V			Metal Oxid	
C783			1000p 50V Ceramic	AA	R150	VRD-RA2BE822J	V			Carbon	AA
C784	VCKYCY1HB102K		•	AA	D450	VDD DAODEECA I	١,,	(A805	,	Caulaga	Λ Λ
C785 C786	VCKYCY1HF103Z VCEA9M1HW105N			AA c AB	R152 R153	VRD-RA2BE561J VRS-CY1JF473J	V			Carbon Metal Oxid	AA e AA
C790	VCKYCY1CF104Z			AA	R153	VRS-CY1JF822J	V			Metal Oxid	
			(A50/A50S)					(exce	pt A80	SA)	
C791	VCKYCY1CF104Z		0.1 16V Ceramic	AA	R164	VRS-CY1JF000J	V			Metal Oxid	
C792	VCKYCY1CF104Z	V	0.1 16V Ceramic	AA	R201	VRS-CY1JF682J	V			Metal Oxid	
C702	VCKVCV1CE1047	١/	(A50/A50S) 0.1 16V Ceramic	ΛΛ	R202	VRS-CY1JF182J	V			Metal Oxid	
C793	VCKYCY1CF104Z	V	(A50/A50S)	AA	R203	VRS-CY1JF332J	V		pt A60	' Metal Oxid)	e AA
C794	VCKYCY1HF103Z	٧	0.01 50V Ceramic	AA	R203	VRS-CY1JF822J	V	8.2k	1/16W	Metal Oxid	e AA
C795	VCKYCY1HF1037	V	(A50/A50S) 0.01 50V Ceramic	AA	R207	VRS-CY1JF102J	V	(A60) 1k		Metal Oxid	e AA
0.00		•	(A50/A50S)	, , , ,	R211	VRS-CY1JF153J	V			Metal Oxid	
C796	VCKYCY1HF103Z	V	0.01 50V Ceramic	AA	R212	VRS-CY1JF153J	V			Metal Oxid	
			(A50/A50S)		R225	VRS-CY1JF750J	V	75	1/16W	Metal Oxid	e AA
C797	VCEA9A0JW476M		· · · · · · · · · · · · · · · · · ·		R227	VRS-CY1JF750J	V			Metal Oxid	e AA
C799	VCKYCY1HF103Z	V	0.01 50V Ceramic (A50/A50S)	AA	R234	VRS-CY1JF123J	\/			/A10S) ′ Metal Oxid	_ ΔΔ
C805	VCEA9M0JW476M	1 V	,	c AB	11234	VK3-0110F1230	V	(A60)		IVICIAI OXIU	e AA
<u> </u>	RC-FZ028SCEZZ	V	0.1 AC250VM.Polypro	AD	R235	VRS-CY1JF391J	٧	390 [′]	1/16W	Metal Oxid	e AA
	RC-EZ0437GEZZ	V	2200p AC250VCeramic 68 200V Electrolytic		R236	VRS-CY1JF391J	٧	(A60) 390		Metal Oxid	e AA
C907			0.047 400V M.Polypro		D007	\/DC_C\/4_IE070_I	١,,	(A60)		/Matal Outal	- ^^
C909 C911	VCQYTA1HM272K		100p 50V Ceramic 2700p 50V Mylar	AB AA	R237	VRS-CY1JF272J	V	(A60)		Metal Oxid	e AA
C912 C913	RC-EZ0661GEZZ VCEA0M1HW226N		•		R238	VRS-CY1JF471J	V	470 (A60)		Metal Oxid	e AA
C914	VCQYTA1HM152K	(V	1500p 50V Mylar	AB	R239	VRS-CY1JF391J	V	390 [′]	1/16W	Metal Oxid	e AA
	VCEA0M1JW476M VCEA0A1VW477M				R240	VRS-CY1JF103J	V	(A60) 10k		Metal Oxid	e AA
<u> </u>	RC-EZ0439GEZZ	V	2200 16V Electrolytic	c AF	Doso			(A60)		O a who a re-	
<u>↑</u> C934	RC-EZ1075CEZZ		2200 10V Electrolytic		R252	VRD-RA2EE331J	V			Carbon	AA
<u> </u>	VCEA0A1EW107M	ı V		c AC	R253	VRS-CY1JF101J				Metal Oxid	
<u></u> C939	\/CEAAAA \\\\\\	\/	(except A10S) 1000 6.3V Electrolytic	c AC	R254 R286	VRS-CY1JF183J	V			' Metal Oxid ' Metal Oxid	
<u>/N</u> C939 C961	VCEA0A0JW108M VCEA9M1CW106N				R286 R301	VRS-CY1JF470J VRS-CY1JF473J				Metal Oxid	
C962	VCEA9M1CW106N				11001	VAC 01 101 47 00	v	-7 / K	.,	Motal Oxid	5 AA

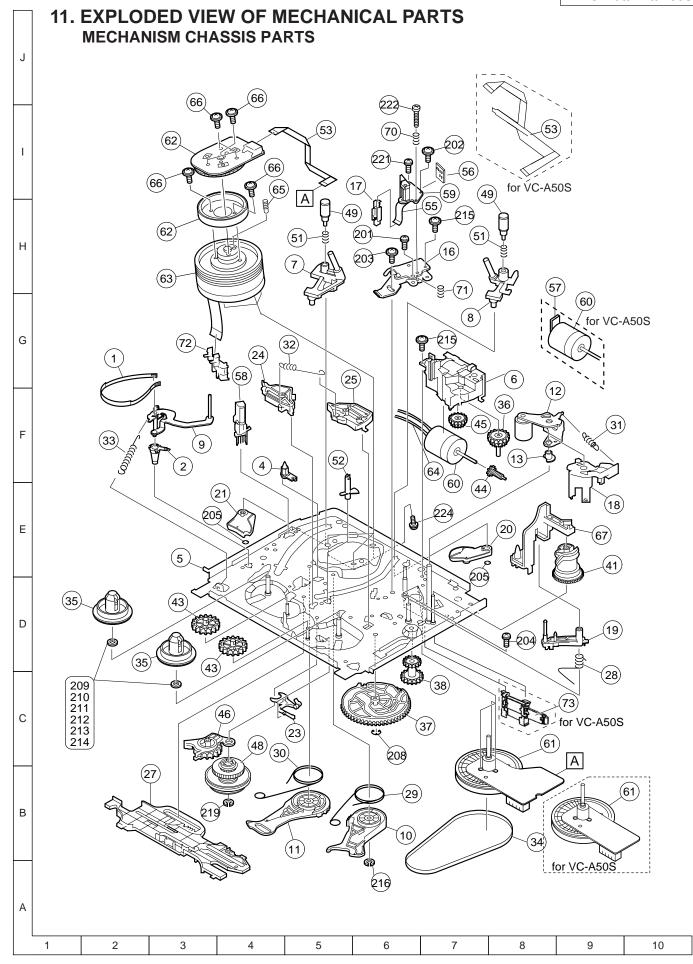
Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description (Code
R302	VRD-RA2BE561J	V	560 1/8W Carbon	AA	R658	VRS-CY1JF223J	V	22k 1/16W Metal Oxide	e AA
R303	VRS-CY1JF392J	V	(A60/A80S) 3.9k 1/16W Metal Oxid	de AA	R659	VRS-CY1JF472J	V	(A80S) 4.7k 1/16W Metal Oxide (A80S)	e AA
R309	VRS-CY1JF222J	V	(A60/A80S) 2.2k 1/16W Metal Oxid	de AA	R660	VRS-CY1JF471J	V	470 1/16W Metal Oxide	AA :
R312	VRS-CY1JF561J	V	560 1/16W Metal Oxid (except A60/A80S)	de AA	R663	VRD-RA2BE473J	V	(A80S) 47k 1/8W Carbon	AA
R313	VRS-CY1JF392J	V	3.9k 1/16W Metal Oxid (except A60/A80S)	de AA	R664	VRS-CY1JF682J		(A80S) 6.8k 1/16W Metal Oxide	e AA
R350	VRS-CY1JF000J	V	0 1/16W Metal Oxid (except A75S/A80S)	de AA	R667	VRD-RA2BE101J		(A80S) 100 1/8W Carbon	AB
R351	VRS-CY1JF473J	V	47k 1/16W Metal Oxio (A80S)	de AA	R668	VRS-CY1JF223J		(A80S) 22k 1/16W Metal Oxide	
R501 R502	VRS-CY1JF102J VRS-CY1JF273J		1k 1/16W Metal Oxid		R669	VRS-CY1JF472J		(A80S) 4.7k 1/16W Metal Oxide	
R502	VRS-CY1JF221J		220 1/16W Metal Oxid		1009	VIXO-011014720	V	(A80S)	, ,,,
R506	VRS-CY1JF224J		220k 1/16W Metal Oxid		R670	VRS-CY1JF471J	V	470 1/16W Metal Oxide	e AA
R511	VRS-CY1JF272J		2.7k 1/16W Metal Oxid		D074	\/DC_C\/4_IE000_I	١,,	(A80S)	
R512 R601	VRS-CY1JF272J VRS-CY1JF822J		2.7k 1/16W Metal Oxid 8.2k 1/16W Metal Oxid		R671	VRS-CY1JF000J	V	0 1/16W Metal Oxide (A80S)	· AA
R601	VRS-CY1JF183J		(except A75S/A80S) 18k 1/16W Metal Oxid		R672	VRS-CY1JF221J	V	220 1/16W Metal Oxide (A80S)	e AA
R602	VRS-CY1JF274J		(A75S/A80S) 270k 1/16W Metal Oxid		R673	VRS-CY1JF221J	V	220 1/16W Metal Oxide (A80S)	e AA
R603	VRS-CY1JF221J		220 1/16W Metal Oxid		R674	VRD-RA2BE273J	V	27k 1/8W Carbon	AA
R604	VRS-CY1JF473J		47k 1/16W Metal Oxid					(A80S)	
R605	VRS-CY1JF000J	V	0 1/16W Metal Oxid (A10/A10S)	de AA	R675	VRS-CY1JF822J	V	8.2k 1/16W Metal Oxide (A80S)	e AA
R605	VRS-CY1JF153J	V	15k 1/16W Metal Oxio (except A10/A10S)	de AA	R676	VRS-CY1JF102J		1k 1/16W Metal Oxide (A80S)	
R606	VRS-CY1JF000J	V	0 1/16W Metal Oxid (A10/A10S)	de AA	R677	VRS-CY1JF473J	V	47k 1/16W Metal Oxide (A80S)	e AA
R606	VRS-CY1JF273J	V	27k 1/16W Metal Oxid (except A10/A10S)	de AA	R678	VRS-CY1JF333J	V	33k 1/16W Metal Oxide (A80S)	e AA
R611	VRS-CY1JF153J		15k 1/16W Metal Oxid (A80S)		R685	VRS-CY1JF272J	V	2.7k 1/16W Metal Oxide (A80S)	e AA
R611	VRS-CY1JF393J	V	39k 1/16W Metal Oxio (except A10/A10S/A80		R686 R689	VRS-CY1JF272J VRS-CY1JF272J		2.7k 1/16W Metal Oxide 2.7k 1/16W Metal Oxide	
R612	VRS-CY1JF153J	V	15k 1/16W Metal Oxid (except A10/A10S/A80		R690	VRS-CY1JF101J	V	(A80S) 100 1/16W Metal Oxide	e AA
R612	VRS-CY1JF823J	V	82k 1/16W Metal Oxid (A80S)	,	R691	VRD-RA2BE102J	V	(A80S) 1k 1/8W Carbon	AA
R616	VRS-CY1JF183J	V	18k 1/16W Metal Oxid (A75S/A80S)	de AA	R701	VRD-RA2BE104J	V	100k 1/8W Carbon (except A60)	AA
R618	VRS-CY1JF473J	V	47k 1/16W Metal Oxid	de AA	R704	VRS-CY1JF153J		15k 1/16W Metal Oxide	
R619	VRS-CY1JF470J	V	47 1/16W Metal Oxid	de AA	R705	VRS-CY1JF153J		15k 1/16W Metal Oxide	
R620	VRS-CY1JF153J	١/	(except A10/A10S) 15k 1/16W Metal Oxid	40	R707	VRS-CY1JF000J		0 1/16W Metal Oxide 3.3k 1/16W Metal Oxide	
K020	VK3-C11JF133J	V	(except A10/A10S)	JE AA	R708 R709	VRS-CY1JF332J VRS-CY1JF222J		2.2k 1/16W Metal Oxide	
R621	VRD-RA2EE4R7J	V	4.7 1/4W Carbon (except A10/A10S)	AA	R710	VRS-CY1JF822J		8.2k 1/16W Metal Oxide (except A80SA)	
R623	VRS-CY1JF223J	V	22k 1/16W Metal Oxid	de AA	R713 R721	VRS-CY1JF102J		1k 1/16W Metal Oxide	
R623	VRS-CY1JF273J	٧	27k 1/16W Metal Oxid			VRS-CY1JF223J		(except A75S)	
R624	VRS-CY1JF472J	V	(except A10/A10S/A80 4.7k 1/16W Metal Oxid	,	R721	VRS-CY1JF222J		2.2k 1/16W Metal Oxide (A75S)	
R625	VRS-CY1JF222J	٧	(except A10/A10S) 2.2k 1/16W Metal Oxid	de AA	R728 R730	VRS-CY1JF332J VRS-CY1JF101J	V	3.3k 1/16W Metal Oxide 100 1/16W Metal Oxide	e AA
R626	VRS-CY1JF101J	V	(except A10/A10S) 100 1/16W Metal Oxid	de AA	R731 R738	VRS-CY1JF473J VRS-CY1JF103J	V	47k 1/16W Metal Oxide 10k 1/16W Metal Oxide	
R627	VRS-CY1JF392J	V	(except A10/A10S) 3.9k 1/16W Metal Oxid	de AA	R739 R741	VRD-RA2BE102J VRS-CY1JF123J		1k 1/8W Carbon 12k 1/16W Metal Oxide	AA AA
D624	\/DC (CV4 IE000 I	\/	(except A10/A10S)	40 ^ ^	R742	VRS-CY1JF223J		22k 1/16W Metal Oxide	
R631 R632	VRS-CY1JF000J VRS-CY1JF104J		 0 1/16W Metal Oxid 100k 1/16W Metal Oxid 		R743 R744	VRS-CY1JF563J VRS-CY1JF223J		56k 1/16W Metal Oxide 22k 1/16W Metal Oxide	
R632	VRD-RA2BE104J		100k 1/8W Carbon	AA ət	R744 R745	VRD-RA2BE102J		1k 1/8W Carbon	AA AA
R634	VRS-CY1JF000J		0 1/16W Metal Oxid		R746	VRS-CY1JF182J		1.8k 1/16W Metal Oxide	
R637	VRS-CY1JF682J		6.8k 1/16W Metal Oxid		R747	VRS-CY1JF681J		680 1/16W Metal Oxide	
R638	VRD-RA2BE561J	V		AA	R748	VRS-CY1JF000J		0 1/16W Metal Oxide	
R653	VRS-CY1JF473J		47k 1/16W Metal Oxid		R750	VRD-RA2BE473J		47k 1/8W Carbon	AA
1.000	31 101 7100	٠	(A80S)		R751	VRD-RA2BE562J		5.6k 1/8W Carbon	AA
R654	VRS-CY1JF682J	V	6.8k 1/16W Metal Oxid	de AA	R752	VRD-RA2BE103J		10k 1/8W Carbon	AA
			(A80S)		R754	VRD-RA2EE181J		180 1/4W Carbon	AA
R657	VRS-CY1JF101J	V	100 1/16W Metal Oxid (A80S)	de AA	R756 R757	VRS-CY1JF103J VRS-CY1JF473J	V	10k 1/16W Metal Oxide 47k 1/16W Metal Oxide	AA :
-			· · /						

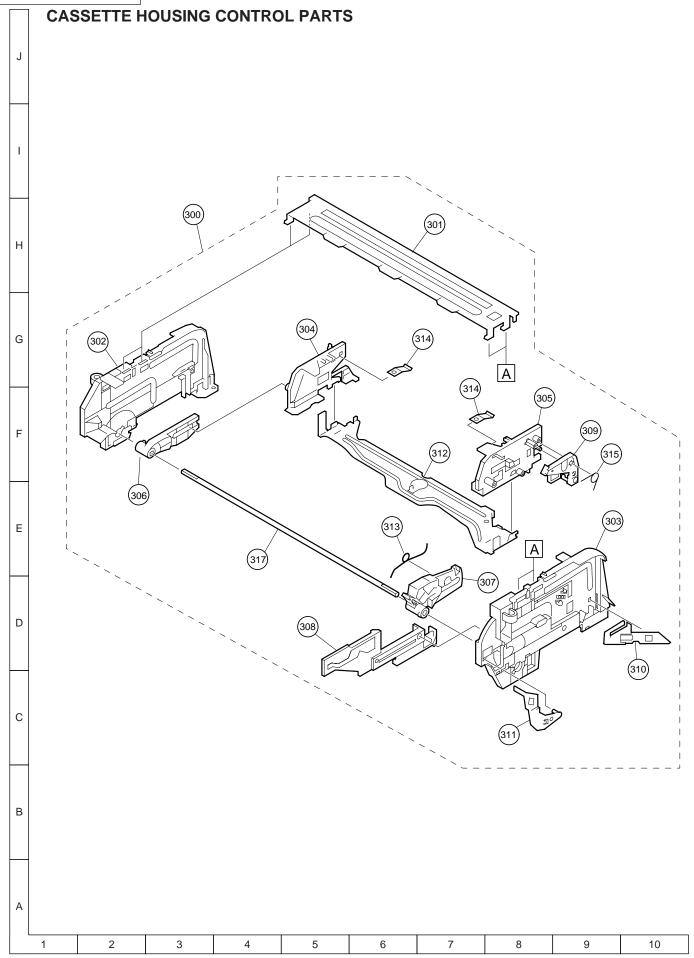
Ref. No.	Part No.	*	Description (Code	R	ef. No.	Part No.	*	Description C	ode
			(A50/A50S)			R963	VRD-RA2EE121J	V	120 1/4W Carbon (except A80S)	AA
R760 R761	VRG-SC2EB1R0J VRS-CY1JF222J	V				R963	VRD-RA2EE101J	V	100 1/4W Carbon (A80S)	AA
R762	VRD-RM2HD1R0J	٧	(A50/A50S) 1 1/2W Carbon	AA		R965 R968	VRD-RA2BE103J VRS-CY1JF103J	V	10k 1/8W Carbon 10k 1/16W Metal Oxide	AA AA
R763	VRD-RM2HD1R0J	V	(A50/A50S) 1 1/2W Carbon	AA		R969 R970	VRD-RA2EE102J VRS-CY1JF222J	V V	1k 1/4W Carbon	AA AA
R764	VRD-RM2HD1R0J	V	(A50/A50S) 1 1/2W Carbon	AA		R971 R973	VRD-RM2HD471J VRD-RA2BE333J	V	470 1/2W Carbon	AA AA
R765	VRD-RM2HD1R0J	V	(A50/A50S) 1 1/2W Carbon	AA		11070	MISCELLAN	-		, , ,
R766	VRS-CY1JF224J	V		e AA	\bigwedge_{\bigwedge}	ACC901 F901				AM AD
R768	VRS-CY1JF564J	V	(A50/A50S) 560k 1/16W Metal Oxide	e AA	<u> </u>	FB101 FB701	RBLN-0043CEZZY RBLN-0090GEZZY	V	Ferrite Bead	AB AB
R771	VRS-CY1JF103J	\/	(A50/A50S) 10k 1/16W Metal Oxide	ΔΔ		FB901	RBLN-0090GEZZY			AB
R772	VRS-CY1JF122J		1.2k 1/16W Metal Oxide			FB931	RBLN-0090GEZZ	V		AB
KITZ	VIXO-011011220	٧	(A50/A50S)	, ,,,,,	<u>^</u>	FH901	QFSHD1017CEZZ	V	Fuse Holder	AC
R781	VRS-CY1JF103J	V	10k 1/16W Metal Oxide	. AA	$\overline{\mathbb{A}}$		QFSHD1018CEZZ	V	Fuse Holder	AC
R782	VRS-CY1JF103J		10k 1/16W Metal Oxide			J201	QJAKF0068AJZZ	V	Rear AV Jack	ΑE
R783	VRD-RA2BE102J		1k 1/8W Carbon	AA					(A10/A10S)	
R785	VRD-RA2BE391J	V	390 1/8W Carbon	AA		J201	QJAKH0011AJZZ	V	Rear AV Jack	AK
R786	VRS-CY1JF473J	V	47k 1/16W Metal Oxide	AA :					(except A10/A10S/A80S)	
R788	VRS-CY1JF104J	V	100k 1/16W Metal Oxide	AA :		J201	QJAKL0006AJZZ	V	()	AL
R789	VRD-RA2BE391J	V	390 1/8W Carbon	AA		P501	QPLGZ0509REZZ	V	Plug (A60)	AC
R790	VRS-CY1JF473J	V	47k 1/16W Metal Oxide	· AA		P502	QPLGZ0409REZZ	V	. 3 (/	AB
R792	VRS-CY1JF104J	V	100k 1/16W Metal Oxide	· AA		P503	QPLGZ0509REZZ	V	Plug (A60)	AC
R809	VRD-RA2BE101J	-	100 1/8W Carbon	AB		P701	QPLGZ1283GEZZ	V	Plug, 12pin	ΑE
R811	VRS-CY1JF183J	V	18k 1/16W Metal Oxide				001 00110000		(except A50A/SA)	. –
R813	VRS-CY1JF272J	V				P702	QPLGZ1283GEZZ	V	Plug, 12pin	ΑE
R814	VRS-CY1JF332J		3.3k 1/16W Metal Oxide			DOOO	ODI ONO450DE77	١,,	(A50/A50S)	^ _
R815	VRS-CY1JF000J		0 1/16W Metal Oxide			P809	QPLGN0459REZZ		Plug, 7pin(AO)	AG
R816	VRD-RA2BE822J		8.2k 1/8W Carbon	AA	<u> </u>	P901 RDA701	QPLGN0269GEZZ		Plug, 3pin	AB AC
R818	VRS-CY1JF472J	V				KDA701	PRDAFA001WJFW	V	(A50/A50S)	AC
R821	VRS-CY1JF183J	V				RMC801	RRMCU0086GEZZ	\/	Remote Receiver	AQ
R823 R824	VRS-CY1JF272J	V	2.7k 1/16W Metal Oxide 3.3k 1/16W Metal Oxide			S701	QSW-F0042AJZZ	V		AG
R825	VRS-CY1JF332J VRS-CY1JF472J	V				0.01	QOW 1 00 12/1022	٠	(except A10/A10S)	7.0
R826	VRS-CY1JF822J	V				S704	QSW-RA001WJZZ	V		AF
R827	VRD-RA2BE333J	V	33k 1/8W Carbon	AA		S801	QSW-K0004AJZZ	V	Switch	AB
R828	VRD-RA2BE563J	V	56k 1/8W Carbon	AA		S802	QSW-K0004AJZZ	V	Switch	AB
R841	VRD-RA2BE221J	V		AA		S803	QSW-K0004AJZZ	V	Switch	AB
R842	VRD-RA2BE221J	V	220 1/8W Carbon	AA		S804	QSW-K0004AJZZ	V	Switch	AB
R843	VRD-RA2BE221J	V	220 1/8W Carbon	AA		S805	QSW-K0004AJZZ	V	Switch	AB
R861	VRD-RA2BE221J	V	220 1/8W Carbon	AA		S806	QSW-K0004AJZZ	V	Switch	AB
R863	VRD-RA2BE221J	V	220 1/8W Carbon	AA		S807	QSW-K0004AJZZ	V	Switch	AB
R864	VRD-RA2BE221J	V	220 1/8W Carbon	AA		S808	QSW-K0004AJZZ	V		AB
R865	VRD-RA2BE221J	V	220 1/8W Carbon	AA		SC301	QSOCNA006WJZZ			AD
			(except A10/A10S)			SC601	QSOCN0611REN1			AC
⚠ R901	RR-HZ0014GEZZ	V	12M	ΑE		SC602	QSOCZ0293GEZZ	V		AC
R902	VRD-RA2HD105J		1M 1/2W Carbon	AA					(except A10/A10S)	
R904	RR-SZ0007GEZZ		68k 2W	AB		SC701	QSOCN1095REZZ	V		AC
R905	VRD-RA2HD105J		1M 1/2W Carbon	AA		TD004	ODI ONO447DE77	١,,	(A50/A50S)	^ ^
R906	VRD-RM2HD273J		27k 1/2W Carbon	AA		TP201	QPLGN0447REZZ		3, 1 (AA
R907	VRN-VV3DBR56J		0.56 2W Metal Film	AA		W851 W852	LHLDZ2185AJ00 LHLDZ2185AJ00		Holder Holder	AB AB
R909	VRS-CY1JF563J		56k 1/16W Metal Oxide			VV032	LULDZZ 100AJ00	٧	Holdel	AD
R910	VRD-RM2HD102J		1k 1/2W Carbon	AA						
R911	VRS-CY1JF101J		100 1/16W Metal Oxide							
R913	VRD-RA2HD105J		1M 1/2W Carbon	AA			DUNTU	244	NOTEN / E	
R914	VRS-CY1JF183J		18k 1/16W Metal Oxide				DUNTKI	31(061EV5	
R916 R917	VRS-CY1JF333J VRD-RA2BE153J		33k 1/16W Metal Oxide 15k 1/8W Carbon	AA :			OPERA'	TIC	N Unit	
R930	VRD-RAZBE103J		1k 1/8W Carbon	AA						
R931	VRS-CY1JF561J		560 1/16W Metal Oxide				RESI	ST	ORS	
R932	VRD-RA2BE471J		470 1/8W Carbon	AA		R881	VRS-CY1JF103J		10k 1/16W Metal Oxide	AA
R933	VRS-CY1JF122J		1.2k 1/16W Metal Oxide			R882	VRS-CY1JF103J		10k 1/16W Metal Oxide	
R934	VRS-CY1JF152J		1.5k 1/16W Metal Oxide			R883	VRS-CY1JF223J		22k 1/16W Metal Oxide	
R935	VRS-CY1JF102J		1k 1/16W Metal Oxide					•		
R936	VRD-RA2BE101J		100 1/8W Carbon	AB			MISCELLAN	EC	US PARTS	
R938	VRS-CY1JF000J		0 1/16W Metal Oxide			S881	QSW-K0004AJZZ		Switch, PLAY	AB
R941	VRS-CY1JF273J		27k 1/16W Metal Oxide			S882	QSW-K0004AJZZ		Switch, STOP	AB
R942	VRS-CY1JF104J		100k 1/16W Metal Oxide			S884	QSW-K0004AJZZ		Switch, REW	AB
R943	VRD-RA2BE152J		1.5k 1/8W Carbon	AA		S886	QSW-K0004AJZZ		Switch, FF	AB
R961	VRD-RA2BE561J	V	560 1/8W Carbon	AA	_	SC881	QSOCZ0450CEZZ			AC

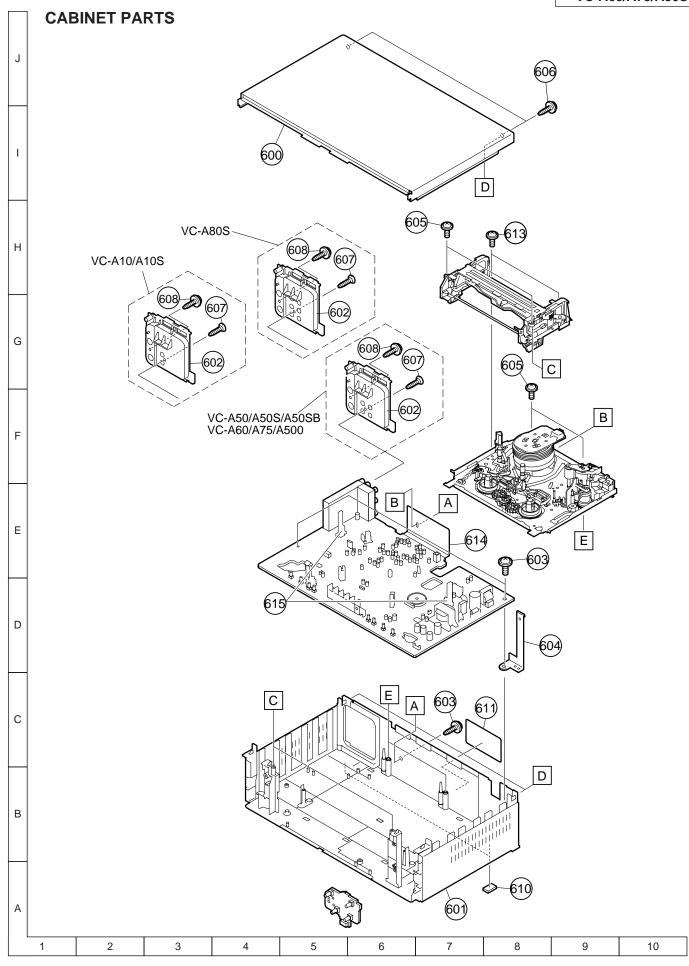
Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
	DUNT	B20	5TEV1						
	SECAM Un	it (V	C-A60 only)						
			CIRCUITS		-				
IC501	VHiTA1238F/-1	V	TA1238F	AR					
Q504	TRAN VS2PD601AR/-1		TORS 2PD601AR	AB					
Q505	VS2PD601AR/-1		2PD601AR	AB					
Q506	VSKRC104S//-1		KRC104S	AA					
Q507	VSKRA104S//-1	V	KRA104S	AA					
V500			CIRCUITS	A.I.I.					
X503	RCRSB0225GEZ	.Z V	Crystal	AH					
C551			ORS	۸۸					
C551	VCKYCY1EB103			AA AA					
C552	VCKYCY1CF104			AA					
C554	VCCCCY1HH120			AA					
C555	VCKYCY1CF104			AA					
C557			0.039 16V Ceramic	AA					
C558	VCEA9M1HW225	5M V	2.2 50V Electrolyt	tic AB					
C559	VCKYCY1CF334			AA					
C560	VCKYCY1CB104			AB					
C561	VCKYCY1CB104			AB					
C562 C563	VCKYCY1CB104 VCEA9M0JW476			AB tic AB					
C564	VCEA9M1HW474		-						
C565			0.047 16V Ceramic	AA					
C566	VCKYCY1HF103			AA					
C567	VCEA9M1HW474	4M V	0.47 50V Electrolyt	tic AB					
C568	VCKYCY1CB473	K V	0.047 16V Ceramic	AA					
C569	VCKYCY1CF104			AA					
C570	VCKYCY1HF103			AA					
C571	VCKYCY1CF334	Z V	0.33 16V Ceramic	AA					
DEE4		SIST		:- - ^ ^					
R551 R552	VRS-CY1JF562J VRS-CY1JF103J		5.6k 1/16W Metal Ox 10k 1/16W Metal Ox						
R553	VRS-CY1JF103J		10k 1/16W Metal Ox						
R554	VRS-CY1JF102J		1k 1/16W Metal Ox						
R555	VRS-CY1JF102J		1k 1/16W Metal Ox						
R556	VRS-CY1JF392J	V	3.9k 1/16W Metal Ox	ide AA					
R557	VRS-CY1JF562J		5.6k 1/16W Metal Ox						
R558	VRS-CY1JF563J		56k 1/16W Metal Ox						
R559	VRS-CY1JF102J		1k 1/16W Metal Ox						
R560	VRS-CY1JF103J		10k 1/16W Metal Ox 47k 1/16W Metal Ox						
R561 R562	VRS-CY1JF473J VRS-CY1JF472J		4.7k 1/16W Metal Ox 4.7k 1/16W Metal Ox						
R563	VRS-CY1JF222J		2.2k 1/16W Metal Ox						
R564	VRS-CY1JF222J		2.2k 1/16W Metal Ox						
R566	VRS-CY1JF102J		1k 1/16W Metal Ox						
R567	VRS-CY1JF102J		1k 1/16W Metal Ox						
R568 R571	VRS-CY1JF222J VRS-CY1JF000J		2.2k 1/16W Metal Ox 0 1/16W Metal Ox						
SCE04	QSOCZ0509REZ		OUS PARTS	^_					
SC501 SC502	QSOCZ0509REZ			AC AC					
SC503	QSOCZ0509REZ			AC					
			, I	-					

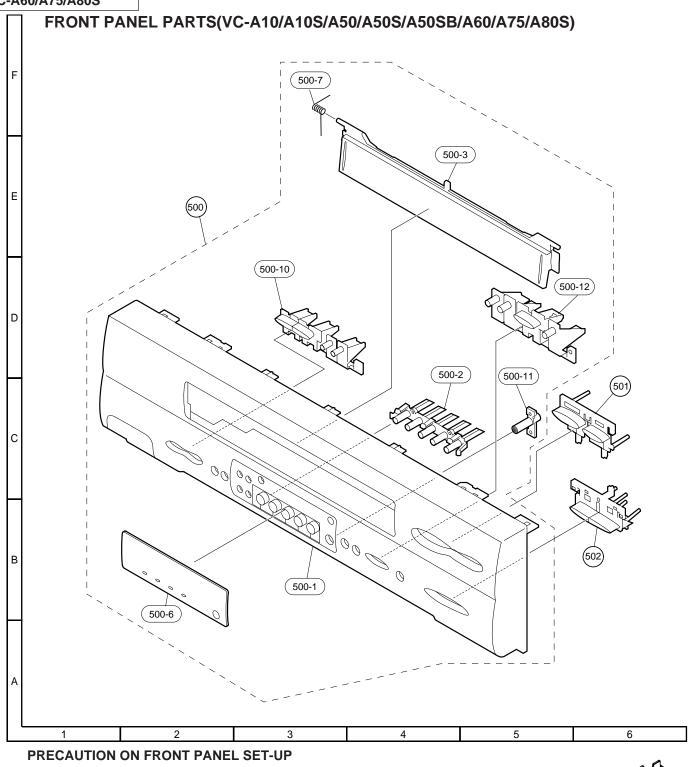
BINDK1021AJZZ	Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description C	ode
LIENDIKI (1974.AUZ V Treston Rand Sasty AC 2 LIBOSZ1002AUZ V Treston Am Boses AB 3 LOSST1002AUZ V Creston Estry L AD 66	N	MECHANISM (CH.	ASSIS PARTS		63	DDRMW0043TEX2	V		ВН
BOSX1102ALZZ V						64	QCNW-A244WJZZ	V	<u> </u>	AB
BOSZLIDSALZE V		LBNDK1021AJZZ	V	Tension Band Ass'y	AC	65	OBBSK0041GE77	- 1	` '	ΔD
A					AB					
S	4	LBOSZ1006AJZZ	V	Cassette Stay L					` ,	
Continue		LCHSM0186AJZZ	V		AQ				•	
CPUNINGSACE_X	6	LHLDZA049WJZZ	V	Loading Motor Block					. 0	
B	7	LPOLM0085GEZZ								
9		LPOLM0086GEZZ	J							
10						7.5	LITEDVV 1030A022	٧	<u>o</u>	AD
12	10	MARMP0061AJZZ	V						riolder	
13	11	MARMP0062AJZZ	V							
16		MLEVF0545GEZZ	J	Pinch Roller Lever Ass'y		•	ODEW NUITO		ND WACHEDO	
17		NBRGP0031AJZZ	V	Pinch Guide Bearing		S	CREW, NUIS	A	ND WASHERS	
18		LANGFA008WJFW	/ V	A/C Head Plate						
MILEVPO344A, Z. Placetes Guide Lever AE 202			V			204	VDDCDQCDQQQQ	١,,	0.0D .00 A/C Hand	Λ Λ
203			V	Pinch Double Action Leve						
20	19	MLEVP0344AJZZ	V	Reverse Guide Lever	ΑE					
MLEVP0345ALZZ V Clutch Lever				Ass'y						
MLEVP0346AJZZ V. Clutch Lever AC 208	20	MLEVP0342AJZZ	V	Loading Link Take-up	AB				` ,	
MILEVPO348AJZZ V Supph Main Brake	21	MLEVP0343AJZZ	V	Loading Link Supply	AB					
MILEVPD349AJZZ V Take-up Main Brake Assy AC 210	23	MLEVP0346AJZZ	V		AC				,	
MSJP0016AJZZ V Shifter	24	MLEVP0348AJZZ	V	Supply Main Brake						
27 MSLIP0016AJZZ V Shifter AD 211 XWHJZ31-80552 V Reel Washer 0.5 AC 29 MSPRD0213AJFJ V Reverse Guide Spring AB 212 XWHJZ31-80552 V Reel Washer 0.6 AC 30 MSPRD0213AJFJ V Supply Load Double Action Spring Action Spring Action Spring AB 213 XWHJZ31-80552 V Reel Washer 0.7 AC 31 MSPRT0439AJFJ V Pinch Double Action Spring Action Spring AD AB 216 LX-WZ1098GE00 J CW2.6-6-0.5 ARM AA 32 MSPRT0439AJFJ V Main Brake Spring AB AB 222 XBPSD26P06000 J CW2.6-6-0.5 ARM AA 33 MSPRT0415ALFJ J V Free Belt AC	25	MLEVP0349AJZZ	V	Take-up Main Brake As	s'y AC			-		
MSPRD0213AJFJ V Take-up Load Double AB 213 XWHJZ31-70752 V Reel Washer 0.7 AC Action Spring Action Sprin	27	MSLiP0016AJZZ	V					-		
29	28	MSPRD0210AJFJ	V	Reverse Guide Spring	AB		XWHJZ31-06052	V		
Action Spring	29	MSPRD0213AJFJ	V	Take-up Load Double	AB		XWHJZ31-07052	V	Reel Washer 0.7	
MSPRD0214AJFJ V Supply Load Double AB				Action Spring			XWHJZ31-08052	V	Reel Washer 0.8	
Action Spring	30	MSPRD0214AJFJ	V		AB	215	XHPSD26P05WS0	V	L/M Block Screw	AC
MSPRT0439AJFJ V Pinch Double Action						216	LX-WZ1041GE00	J	CW2.6-6-0.5 ARM	AA
Spring	31	MSPRT0439AJFJ	V	. 0	AB	219	LX-WZ1098GE00	J	CW2.6-4.7-0.5	AB
32 MSPRTO438AJFJ V Main Brake Spring AB 222 XBPSD30P06000 V AC Head Screw AA 33 MSPRTO418AJFJ V Tension Spring AD 224 XBPSD30P06000 V 3P+6S (DRM FIX) AA 34 NBLTK0069AJ00 V H-Reel Belt AC AC <t< td=""><td>0.</td><td></td><td>•</td><td></td><td></td><td>221</td><td>XBPSD26P06000</td><td>V</td><td>Azimuth Adjusting Screw</td><td>AA</td></t<>	0.		•			221	XBPSD26P06000	V	Azimuth Adjusting Screw	AA
33	32	MSPRT0438A.IF.I	V		ΔR	222	XBPSD26P14000	V	A/C Head Screw	AA
NBLTK0068AJ00						224	XBPSD30P06000	V	3P+6S (DRM FIX)	AA
SS NDAI/1093AJ00 V Reel Disk AC NGERWIDSZAJZZ V Worm Wheel Gear AD AC NGERWIDSZAJZZ V Worm Wheel Gear AD AD AD NGERH134AJZZ V Master Cam AD AD NGERH134AJZZ V Master Cam AD AD NGERH134AJZZ V Princh Drive Cam AC AD NGERH139AJZZ V Reel Relay Gear AB AD NGERH139AJZZ V Worm Gear AB AD NGERH139AJZZ V Loading Connect Gear AB AD NGERH134ZAJZZ V Loading Connect Gear AB AD NGENH34ZAJZZ V Loading Connect Gear AB AD AD NGENH34ZAJZZ V Loading Connect Gear AB AD NGENH34ZAJZZ V Loading Connect Gear AB AD AD AD AD AD AD AD				1					,	
NGERW1082AJZZ Worm Wheel Gear AC Master Cam AD NGERH134AJAZZ Waster Cam AB NGERH1343AJZZ V Synchro Gear AB NGERH1345AJZZ V Synchro Gear AB AC AB AC NGERH1345AJZZ V Synchro Gear AB AC AB AC AB AC AB ASS AB ASS A			-							
NGERH1344AJZZ			-			0.1.00				
38						CASS	ETTE HOUSIN	IG	CONTROL PAR	15
41										
Assympton Assy				,			O D./0000TE\//			
44 NGERW1081AJZZ V Worm Geár AB 301 LANGF9661AJFW V Upper Plate AD NGERH1342AJZZ V Loading Connect Gear AB 302 LHLDX1049AJ00 V Frame (L) AD MIDR-0036AJZZ V Idler Ass'y AD 303 LHLDX1050AJ00 V Frame (R) AE NPLYV0173AJZZ V Limiter Pully Ass'y AF 304 LHLDX1051AJZZ V Holder (L) AC MSCNPO131GEZZ J Guide Roller AL 305 LHLDX1051AJZZ V Holder (L) AC MSPRC0217AJFJ V Guide Roller Spring AC 306 MARMP0063AJZZ V Drive Arm (L) AB 52 PREFL1025AJZZ V Light Guide AC 307 MARMP0063AJZZ V Drive Arm (L) AB 62 PREFL1025AJZZ V Light Guide AC 307 MARMP006AJZZ V Drive Arm (R) AC (except for VC-A50S) 309 MLEVP0350AJZZ V Drive Arm (R) AC (WC-A50S) 309 MLEVP0351AJZZ V Proof Lever AD (WC-A50S) 311 MLEVP0352AJ00 V Sensor Plate AB 64 (VC-A50S) 311 MLEVP0352AJ00 V Open Lever AB 65 QCNW-A247WJZZ V A/C Head FFC AD 312 MSLF0079AJFW V Slider AD 66 QPWBFB112WJZZ V A/C Head PWB AC 313 MSPRD0212AJFJ V Drive Arm Spring AB 70 QPWBFB181WJZZ V Loading Motor PWB AB 314 MSPRD0175AJFJ V Drive Arm Spring AB 71 RHEDUA001WJZZ V Loading Motor AC (WC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 71 RMCTMA001WJZZ V Loading Motor AC (WC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 71 RMCTMA001WJZZ V Loading Motor AC (WC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 71 RMCTMA001WJZZ V Loading Motor AC (WC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 71 RMCTMA001WJZZ V Loading Motor AC (WC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 71 RMCTMA001WJZZ V Capstan Motor AC (WC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 314 MSPRD0175AJFJ V Drive Arm Spring AB 314 MSPRD0175AJFJ V Proof Lever Spring AB 315 MSPRD0215AJFJ V Drive Arm Spring AB 315 MSPRD0215AJFJ V Drive Arm Spring AB 314 MSPRD0175AJFJ V Drive Arm Spring AB 315 MSPRD0215AJFJ V D						300	CHLDX3083TEV1	V		I AP
45				•						
46 NIDR-0036AJZZ V Idler Ass'y AD 303 LHLDX1050AJ00 V Frame (R) AE 48 NPLYV0173AJZZ V Idmiter Pully Ass'y AF 304 LHLDX1051AJZZ V Holder (L) AC 49 NROLP0131GEZZ J Guide Roller AL 305 LHLDX105AJZZ V Holder (R) AC 51 MSPRC0217AJFJ V Guide Roller Spring AC 306 MARMP0063AJZZ V Drive Arm (L) AB 52 PREFL1025AJZZ V Light Guide AC 307 MARMP0063AJZZ V Drive Arm (R) AC 53 QCNW-A245WJZZ V Drum Motor FFC AE 308 MLEVP0350AJZZ V Drive Arm (R) AC 65 QCNW-A278WJZZ V Drum Motor FFC AF 310 MLEVP0350AJZZ V Proof Lever AD 65 QCNW-A247WJZZ V A/C Head FFC AD 311 MLEVP0352AJ00 V Sensor Plate AB 65 QCNW-A247WJZZ V A/C Head FFC AD 312 MSLF0079AJFW V Slider AD 66 QPWBFB112WJZZ V A/C Head PWB AC 313 MSPRD0212AJFJ V Drive Arm Spring AB 67 QPWBFB18WJZZ V Loading Motor PWB AB 314 MSPRD0215AJFJ V Drive Arm Spring AB 68 RHEDTA001WJZZ V A/C Head Ass'y W/O AE AP 69 RHEDUA001WJZZ V A/C Head Ass'y W/O AE AP 60 RMOTMA001WJZZ V A/C Head Ass'y with AE AP 61 RMOTNA002WJZZ V Capstan Motor AX 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF 63 ASs'y (VC-A10/A10S/A500/A50/A50S) 63 DDRMW0041TEX2 V Upper and Lower Drum BF 64 ASs'y V/C-A600) 65 DDRMW0042TEX2 V Upper and Lower Drum BF 65 ASS YVC-A600) 66 DDRMW0042TEX2 V Upper and Lower Drum BF 65 DDRMW0042TEX2 V Upper and Lower Drum BF										
A8				0						
49 NROLP0131GEZZ J Guide Roller AL 305 LHLDX1052AJZZ V Holder (R) AC 51 MSPRC0217AJFJ V Guide Roller Spring AC 306 MARMP0063AJZZ V Drive Arm (L) AB PREFL1025AJZZ V Light Guide AC 307 MARMP0064AJZZ V Drive Arm (R) AC 307 MARMP0063AJZZ V Drive Arm (R) AC 308 MLEVP0350AJZZ V Drive Lever AD 308 MLEVP0350AJZZ V Drive Lever AD 309 MLEVP0350AJZZ V Drive Lever AD 309 MLEVP0351AJZZ V Drive Lever AD 310 MLEVP0351AJZZ V Drive Lever AD 311 MLEVP0351AJZZ V Drive Lever AB 312 MSLF0079AJFW V Slider AD 312 MSLF0079AJFW V Slider AD 312 MSLF0079AJFW V Drive Arm Spring AB 314 MSPRD015AJFJ V Drive Arm Spring AB 314 MSPRD015AJFJ V Drive Arm Spring AB 314 MSPRD015AJFJ V Proof Lever Spring AB 315 MSPRD0215AJFJ V Proof Lever Spring AB 315 MSPRD0215AJFJ V Proof Lever Spring AB 315 MSPRD0215AJFJ V Drive Arm Spring AB 315 MSPRD0215AJFJ V Drive Arm Spring AB 316 MSPRD0215AJFJ V Drive Arm Spring AB 316 MSPRD0215AJFJ V Drive Arm Spring AB 317 MSFTD0065AJFD V Main Shaft AD 317 MSFTD006				•					` ,	
51 MSPRC0217AJFJ V Guide Roller Spring AC 306 MARMP0063AJZZ V Drive Arm (L) AB 52 PREFL1025AJZZ V Light Guide AC 307 MARMP0064AJZZ V Drive Arm (R) AC 53 QCNW-A245WJZZ V Drum Motor FFC (except for VC-A50S) 309 MLEVP0350AJZZ V Proof Lever AC 53 QCNW-A278WJZZ V Drum Motor FFC (VC-A50S) 310 MLEVP0352AJ00 V Sensor Plate AB 54 QCNW-A247WJZZ V A/C Head FFC AD 312 MSLIF0079AJFW V Slider AB 55 QCNW-A247WJZZ V A/C Head PWB AC 313 MSPRD0212AJFJ V Drive Arm Spring AB 56 QPWBFB1181WJZZ V Loading Motor PWB AB 314 MSPRD0212AJFJ V Drive Arm Spring AB 58 RHEDTA001WJZZ V Full Erase Head AH 317 NSFTD0065AJFD V <td< td=""><td></td><td></td><td></td><td>, ,</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>				, ,						
52 PREFL1025AJZZ V Light Guide AC 307 MARMP0064AJZZ V Drive Arm (R) AC 53 QCNW-A245WJZZ V Drum Motor FFC (except for VC-A50S) 309 MLEVP0350AJZZ V Drive Lever AD 53 QCNW-A278WJZZ V Drum Motor FFC (VC-A50S) AF 310 MLEVP0352AJ00 V Sensor Plate AB 55 QCNW-A247WJZZ V A/C Head FFC AD 311 MLEVP0353AJ00 V Sensor Plate AB 56 QPWBFB112WJZZ V A/C Head PWB AC 313 MSPRD0212AJFJ V Drive Arm Spring AB 57 QPWBFB181WJZZ V A/C Head PWB AC 313 MSPRD0212AJFJ V Drive Arm Spring AB 58 RHEDTA001WJZZ V Full Erase Head AH 317 MSFTD0065AJFD V Main Shaft AD 59 RHEDUA002WJZZ V A/C Head Ass'y with AE (except for VC-A80S) AP AP </td <td></td>										
S3										
53 QCNW-A278WJZZ V Drum Motor FFC (VC-A50S) 309 MLEVP0351AJZZ V Proof Lever AC AB AB (VC-A50S) AB MLEVP0352AJ00 V Sensor Plate AB						307	MARMP0064AJZZ	V	Drive Arm (R)	AC
53 QCNW-A278WJZZ V Drum Motor FFC AF 310 MLEVP0352AJ00 V Sensor Plate AB (VC-A50S) 311 MLEVP0353AJ00 V Open Lever AB 312 MSLiF0079AJFW V Slider AD 312 MSLiF0079AJFW V Slider AD 312 MSLiF0079AJFW V Slider AD 313 MSPRD0212AJFJ V Drive Arm Spring AB 314 MSPRP0175AJFJ V Cassette Spring AE (VC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 314 MSPRD0215AJFJ V Proof Lever Spring AB 315 MSPRD0215AJFJ V Proof Lever Spring AB 316 MSPRD0215AJFJ V Proof Lever Spring AB 317 NSFTD0065AJFD V Main Shaft AD NSFTD0065AJFD V MA	53	QCNW-A245WJZZ	. V		AE	308	MLEVP0350AJZZ	V	Drive Lever	AD
55 QCNW-A247WJZZ V A/C Head FFC AD 311 MLEVP0353AJ00 V Open Lever AB 56 QPWBFB112WJZZ V A/C Head PWB AC 313 MSPRD0212AJFJ V Drive Arm Spring AB 57 QPWBFB181WJZZ V Loading Motor PWB AB 314 MSPRD0212AJFJ V Drive Arm Spring AB 58 RHEDTA001WJZZ V Full Erase Head AH 317 MSPRD0215AJFJ V Proof Lever Spring AB 59 RHEDUA002WJZZ V A/C Head Ass'y W/O AE AP (VC-A80S) NSFTD0065AJFD V Main Shaft AD 60 RMOTMA001WJZZ V A/C Head Ass'y with AE AP (except for VC-A80S) AX (except for VC-A50S) AX 61 RMOTNA001WJZZ V Capstan Motor AX AX (except for VC-A50S) AD AD AS AV AV AV AV AV AV AV AV AV AV <td></td> <td></td> <td></td> <td></td> <td></td> <td>309</td> <td>MLEVP0351AJZZ</td> <td>V</td> <td>Proof Lever</td> <td>AC</td>						309	MLEVP0351AJZZ	V	Proof Lever	AC
55 QCNW-A247WJZZ V Ä/C Head FFC AD 312 MSLiF0079AJFW V Slider AD 66 QPWBFB112WJZZ V A/C Head PWB AC 313 MSPRD0212AJFJ V Drive Arm Spring AB 77 QPWBFB181WJZZ V Loading Motor PWB AB 314 MSPRP0175AJFJ V Cassette Spring AE (VC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 314 MSPRD0215AJFJ V Proof Lever Spring AB 315 MSPRD0215AJFJ V Proof Lever Spring AB 315 MSPRD0215AJFJ V Proof Lever Spring AB 317 NSFTD0065AJFD V Main Shaft AD 4/C Head Ass'y W/O AE AP (VC-A80S) AC (VC-A80S) A A/C Head Ass'y with AE AP (except for VC-A80S) A A/C Head Ass'y with AE AP (except for VC-A50S) A A/C Head Ass'y with AE AP (except for VC-A50S) A A/C Head Ass'y with AE AP (except for VC-A50S) A A/C Head Ass'y with AE AP (except for VC-A50S) A A/C Head Ass'y with AE AP (except for VC-A50S) A DDRMW0041TEX2 V Capstan Motor AT DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y (VC-A60) A DDRMW0042TEX2 V Upper and Lower Drum BF Ass'y (VC-A60) A DDRMW0042TEX2 V Upper and Lower Drum BF Ass'y (VC-A60) Upper And Lower	53	QCNW-A278WJZZ	. V		AF	310	MLEVP0352AJ00	V	Sensor Plate	AB
56 QPWBFB112WJZZ V A/C Head PWB AC 313 MSPRD0212AJFJ V Drive Arm Spring AB 57 QPWBFB181WJZZ V Loading Motor PWB AB 314 MSPRD0215AJFJ V Cassette Spring AE (VC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 58 RHEDTA001WJZZ V A/C Head Ass'y W/O AE AP (VC-A80S) NSFTD0065AJFD V Main Shaft AD 59 RHEDUA002WJZZ V A/C Head Ass'y with AE AP (except for VC-A80S) AX (except for VC-A80S) AX (except for VC-A50S) ASS'y (VC-A10/A10S/A500/A50/A50S/A50S/B) DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y (VC-A60) BF ASS'y (0011111111111				311	MLEVP0353AJ00			AB
57 QPWBFB181WJZZ V Loading Motor PWB AB 314 MSPRP0175AJFJ V Cassette Spring AE (VC-A50S) 315 MSPRD0215AJFJ V Proof Lever Spring AB 315 MSPRD0215AJFJ V Proof Lever Spring AB 316 MSPRD0215AJFJ V Proof Lever Spring AB 317 NSFTD0065AJFD V Main Shaft AD NSFTD0065AJFD V MAIN Shaft							MSLiF0079AJFW	V		
VC-A50S 315 MSPRD0215AJFJ V						313	MSPRD0212AJFJ			
58 RHEDTA001WJZZ V Full Erase Head AH 317 NSFTD0065AJFD V Main Shaft AD 59 RHEDUA002WJZZ V A/C Head Ass'y W/O AE AP (VC-A80S) V Main Shaft AD 60 RMOTMA001WJZZ V Loading Motor AK AK AX (except for VC-A80S) AX (except for VC-A50S) AX (except for VC-A50S) AX (except for VC-A50S) AX AX (except for VC-A50S) AX	57	QPWBFB181WJZZ	2 V	9	AB	314	MSPRP0175AJFJ	V	Cassette Spring	ΑE
59 RHEDUA001WJZZ V A/C Head Ass'y W/O AE AP (VC-A80S) 59 RHEDUA002WJZZ V A/C Head Ass'y with AE AP (except for VC-A80S) 60 RMOTMA001WJZZ V Loading Motor AK 61 RMOTNA001WJZZ V Capstan Motor (except for VC-A50S) 61 RMOTNA002WJZZ V Capstan Motor AU (VC-A50S) 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF Ass'y (VC-A10/A10S/A500/A50S/A50S/S0S) 63 DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y(VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF						315	MSPRD0215AJFJ	V	Proof Lever Spring	AB
59 RHEDUA002WJZZ V A/C Head Ass'y with AE AP 60 RMOTMA001WJZZ V Loading Motor AK 61 RMOTNA001WJZZ V Capstan Motor AX (except for VC-A50S) 61 RMOTNA002WJZZ V Capstan Motor AU (VC-A50S) 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF Ass'y (VC-A60) AS0/A50S/A50S(B)) 63 DDRMW0042TEX2 V Upper and Lower Drum BF Ass'y (VC-A60) BF						317	NSFTD0065AJFD	V	Main Shaft	AD
59 RHEDUA002WJZZ V Å/C Head Áss'y with AE (except for VC-A80S) 60 RMOTMA001WJZZ V Loading Motor AK (axcept for VC-A50S) 61 RMOTNA002WJZZ V Capstan Motor AU (vC-A50S) 61 RMOTP1139GEZZ J Drum Drive Motor AT (VC-A50S) AT Upper and Lower Drum BF Ass'y (VC-A10/A10S/A500/A50S/A50S/B)) 63 DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y (VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF Ass'y (VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF Ass'y (VC-A60)	59	RHEDUA001WJZZ	. V	A/C Head Ass'y W/O Al	E AP					
60 RMOTMA001WJZZ V Loading Motor AK 61 RMOTNA001WJZZ V Capstan Motor (except for VC-A50S) 61 RMOTNA002WJZZ V Capstan Motor (VC-A50S) 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF Ass'y (VC-A10/A10S/A500/A50S/A50S/B)) 63 DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y(VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF										
60 RMOTMA001WJZZ V Loading Motor AK 61 RMOTNA001WJZZ V Capstan Motor AX (except for VC-A50S) 61 RMOTNA002WJZZ V Capstan Motor AU (VC-A50S) 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF Ass'y (VC-A10/A10S/A500/ A50/A50S/A50S(B)) 63 DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y(VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF	59	RHEDUA002WJZZ	. V	A/C Head Ass'y with AE	AP					
61 RMOTNA001WJZZ V Capstan Motor (except for VC-A50S) 61 RMOTNA002WJZZ V Capstan Motor (VC-A50S) 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF Ass'y (VC-A10/A10S/A500/A50/A50/A50/A50/A50/A50/S6)) 63 DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y(VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF				(except for VC-A80S)						
(except for VC-A50S) 61 RMOTNA002WJZZ V Capstan Motor AU (VC-A50S) 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF	60	RMOTMA001WJZZ	Z V	Loading Motor	AK					
61 RMOTNA002WJZZ V Čapstan Motor (VC-A50S) 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF	61	RMOTNA001WJZZ	ZV	Capstan Motor	AX					
61 RMOTNA002WJZZ V Čapstan Motor (VC-A50S) 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF				•						
(VĊ-A50S) 62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF	61	RMOTNA002WJZZ	Z V	' '	AU					
62 RMOTP1139GEZZ J Drum Drive Motor AT 63 DDRMW0041TEX3 V Upper and Lower Drum BF	0.1	1111011111100211022	- •		7.0					
63 DDRMW0041TEX3 V Upper and Lower Drum BF	62	RMOTP1139GF77	ъ.		ΔΤ					
Ass'y (VC-A10/A10S/A500/ A50/A50S/A50S(B)) 63 DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y(VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF										
A50/A50S/A50S(B)) 63 DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y(VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF	03	DDINIVIVOU411EAG	, v							
63 DDRMW0041TEX2 V Upper and Lower Drum BF Ass'y(VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF				• •	000/					
Ass'y(VC-A60) 63 DDRMW0042TEX2 V Upper and Lower Drum BF	62	DDDMMMATEVO) \/		סר					
63 DDRMW0042TEX2 V Upper and Lower Drum BF	03	טטאואואטט411EX2	. V		DF					
	60	DDDMMM0040TEV) \/		סב					
M55 Y (VU-M100)	03	DDKIVIVVUU42 I EX2	2 V		ВF					
				MOD y (VC-M/DD)						

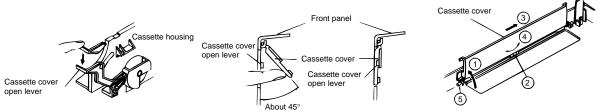
Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description Co	ode
	CABINE	т	PARTS		500-10	JBTN-3164AJSA	V	Button, Power (A10/A50/A60/A75)	AC
	CABINE	_	IANIO		500-10	JBTN-3164AJSB	V		AC
600	GCABA3169AJSM	V	Top Cabinet (A10/A50/A60/A75)	AN	500-11	GCOVA2222AJZZ	V	•	AC
600	GCABA3169AJSW	V	Top Cabinet (A10S/A500 A50S/A50SB/A80S))/ AN	500-11 500-12	GCOVA2214AJZZ JBTN-3165AJSA	V	R/C Cover (A500)	AC AC
601	GCABB1253AJNA	٧	Main Frame(A10S/A500 A50S/A50SB/A80S)	_/ AN	500-12	JBTN-3165AJSB		(A10/A50/A60/A75)	AC
601	GCABB1253AJNB	٧	Main Frame (A10/A50/ A60/A75)	AN	501	JBTN-3163AJSA		(A10S/A50S/A50SBA80S)	
602	GCOVA2228AJZZ	V	Antenna Terminal Cover (A10/A10S)	AC	501	JBTN-3163AJSB		(A10/A50/A60/A75)	AC
602	GCOVA2229AJZZ	V			501	JBTN-3159AJSA		(A10S/A50S/A50SB/A80S)	
602	GCOVAA007WJZZ	V	A60/A75) Antenna Terminal Cover	AC	502	JBTN-3166AJSA		(A500)	AC
603	XHPSD30P06WS0	V	(A80S) Screw	AA	502	JBTN-3166AJSB		(A10/A50/A60/A75)	AC
604	LANGK0261AJFW	V	Top Cabinet Fix Angle	AC				(A10S/A50S/A50SB/A80S)	
605	XEPSD30P14XS0	V	Screw	AB	502	JBTN-3162AJSA	V	`	AC
606	LX-HZ3047GEFF	V	Screw	AA				(A500)	-
607	XEBSD30P12000	V		AA				/	
608	LX-BZ3014GEFD	V		AA					
610			Foot Cushion	AB			_		
611	TLABMA027WJZZ			AC		SUPPLIED A	C	CESSORIES	
611			Model Label (A10S)	AC					
611	TLABM4641AJZZ	V	` ,	AC		OON!!!!! 00704 177	١.,	75 abas 0 and al Oabla	^ _
611	TLABM4634AJZZ		Model Label (A500)	AC					AF
611	TLABM4654AJZZ	V		AC		RRMCGA040WJSA	٩V		AP
611			Model Label (A50SB)	AC				Unit (A10/A10S)	
611	TLABMA037WJZZ		` ,	AC		RRMCGA041WJSA	٩V		ΑP
			` ,					Unit (A500L/A50/A50S/	
611			Model Label (A75)	AC				A50SB/A75)	
611	TLABM4642AJZZ	V		AC		RRMCGA042WJSA	٩V		ΑP
613	XHPSD26P06WS0			AA AD				Unit (A60)	
614 615	PSLDM4594AJFW LHLDZ2185AJ00		H/A Shield Sensor LED Holder	AB		RRMCGA043WJSA	A V	Infrared Remote Control Unit (A80S)	AP
					-	TiNS-A013WJZZ	V	Operation Manual (A10/ A10S)	AD
	FRONT PA	NI	ELPARIS		_	TiNS-A015WJZZ	V	Operation Manual (A50/A50S/A50SB)	AD
500	CDNI CAGAOTEVA	١/	Front Bonol Acciv (A10)	۸٥		TiNS-A017WJZZ		Operation Manual (A500L)	
500	CPNLCA018TEV1		Front Panel Ass'y (A10)			TiNS-A018WJZZ			AD
500	CPNLCA019TEV1	V				TiNS-A019WJZZ			ΑD
500	CPNLC3058TEV1		Front Panel Ass'y (A500			TiNS-A020WJZZ		Operation Manual (A80S)	
500 500	CPNLC3002TEV1 CPNLC3067TEV1		Front Panel Ass'y (A50) Front Panel Ass'y	AQ AS		TMAPCA001WJZZ	V	Schematic Diagram (A500))AB
500	CPNLCA021TEV1		(A50S/A50SB) Front Panel Ass'y (A60)	AQ		PACKIN	G	PARTS	
500 500	CPNLC3003TEV1	V	Front Panel Ass'y (A80S	AQ) AS		(NOT REPLA	CE	MENT ITEM)	
500-1	Not Available	V		_		000100000000000000000000000000000000000		D12 (440)	
500-2	GCOVA2219AJZZ	V		AC		SPAKCA032WJZZ		Packing Case (A10)	_
500-3	HDECQA012WJSA			ΑE		SPAKCA033WJZZ	-	Packing Case (A10S)	_
500-3			Cassette Flap (A10S)	ΑE		SPAKC5696AJZZ	-	Packing Case (A50)	_
500-3			Cassette Flap (A500)	AE		SPAKC5705AJZZ	-	Packing Case	_
500-3			Cassette Flap (A50)	AE		0041/05225		(A50S/A50SB)	
500-3	HDECQ2489AJSB		(A50S/A50SB)	AE		SPAKC5265AJZZ SPAKCA042WJZZ		Packing Case (A500L) Packing Case (A60)	_
500-3			Cassette Flap (A60)	ΑE		SPAKCA043WJZZ	-	Packing Case (A75)	-
500-3			Cassette Flap (A75)	ΑE		SPAKC5697AJZZ	-	Packing Case (A80S)	_
500-3			Cassette Flap (A80S)	ΑE		SPAKX1152AJZZ	-	Buffer Material	-
500-4			Window Dec. (A500)	ΑE		SSAKA0001AJZZ	-	Polyethylene Bag	-
500-6	HINDPA014WJSA		Timer LED Indicator (A1			TLABV0182AJZZ	-	Bar Code Label	-
500-6	HINDPA014WJSB		Timer LED Indicator (A10S)	AD					
500-6	HINDPA011WJSA	V	Timer LED Indicator (A500)	AD					
	HINDP2243AJSA	V	Timer LED Indicator	AD					
500-6	TIINDF 2243AJ3A	V	(A50/A75)						
500-6 500-6	HINDP2243AJSB			AD					











Before attaching the front panel in position, make sure that the cassette cover open lever is in its right place (lower-most). If it is out of position, push it down with a finger.

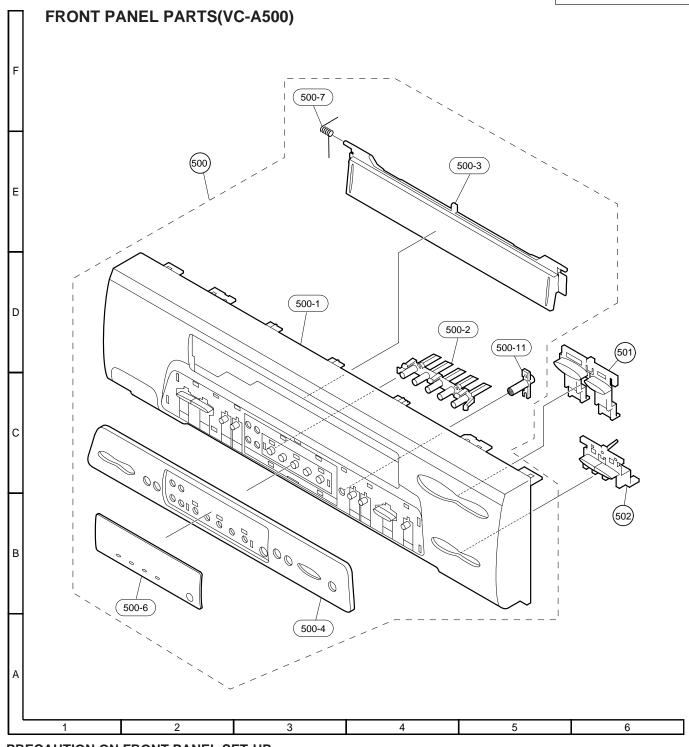
Keep the cassette over about 45° open and make sure that the cassette cover open lever is between the front panel and the cassette cover. Now fix the front panel in place.

Do not mount the front panel with the cassette cover tilted too open. Otherwise the cassette cover might wrongly run on the cassette housing.

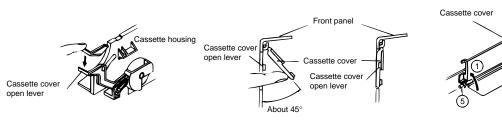
- Removing the cassette compartment cover.

 ① Open the cassette compartment cover
- ② Remove the center positioner.
 ③ Slide the cover to the right.
 ④ Slightly bend the cover.

- ⑤ Draw out the left-side rod.



PRECAUTION ON FRONT PANEL SET-UP



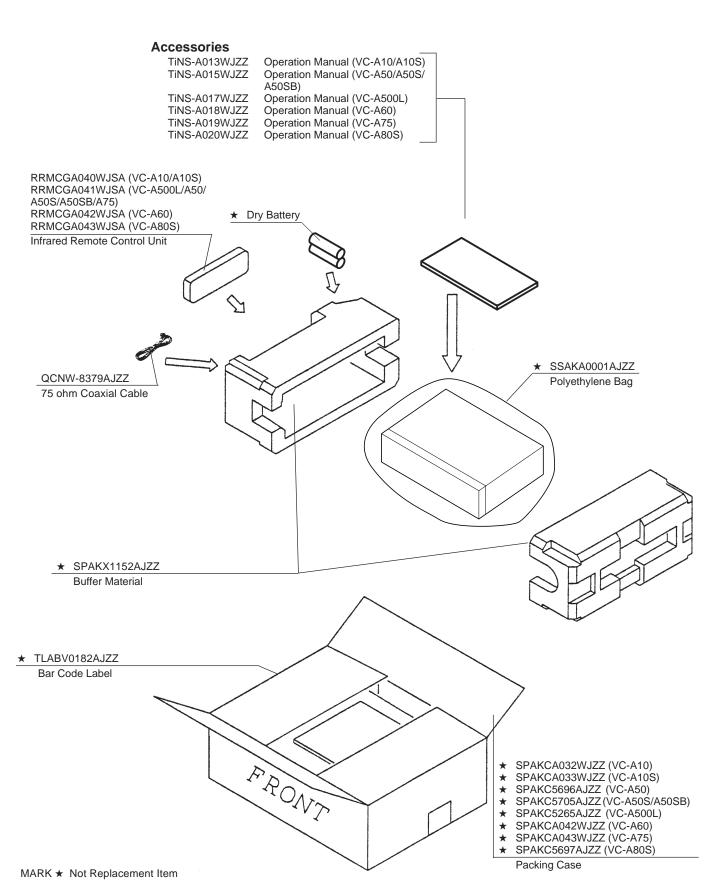
Before attaching the front panel in position, make sure that the cassette cover open lever is in its right place (lower-most). If it is out of position, push it down with a finger.

Keep the cassette over about 45° open and make sure that ver is between the front panel and the cassette cover. Now fix the front panel in place.

Do not mount the front panel with the cassette cover tilted too open. Otherwise the cassette cover might wrongly run on the cassette housing. Removing the cassette compartment cover.
① Open the cassette compartment cover fully.
② Remove the center positioner.
③ Slide the cover to the right.
④ Slightly bend the cover.
⑤ Draw out the left-side rod.

12. PACKING OF THE SET

■ Setting position of the Knobs



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